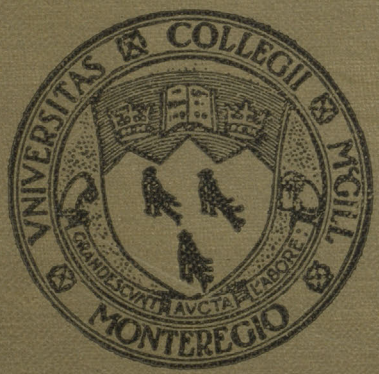
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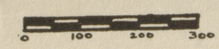
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ACADEMICAL YEAR, 1925-26

SEPTEMBER, 1925

1	Tuesday	
2	Wednesday	
3	Thursday	
4	Friday	Last day for receiving applications for the Matriculation Examination.
5	Saturday	
6	**SUNDAY**	
7	Monday	
8	Tuesday	
9	Wednesday	Register opens for Students in Law. Register opens for Students in Physical Education.
10	Thursday	
11	Friday	
12	Saturday	Last day for Registration in Law.
13	**SUNDAY**	
14	Monday	Matriculation Examination begins. Exhibition, Scholarship and Supplemental Examinations in Arts and Medicine. Lectures begin in Law. Register opens for Students in Medicine and Dentistry.
15	Tuesday	Physical Education Hostel opens.
16	Wednesday	School of Household Science opens.
17	Thursday	School of Physical Education opens.
18	Friday	
19	Saturday	
20	**SUNDAY**	
21	Monday	Lectures begin in Medicine and Dentistry. Register opens for Students in Applied Science who have no conditions. Conservatorium of Music opens.
22	Tuesday	
23	Wednesday	
24	Thursday	Registration begins in the School for Social Workers.
25	Friday	
26	Saturday	
27	**SUNDAY**	
28	Monday	Registration of Students in Arts and Applied Science.
29	Tuesday	Registration of Students in Arts and Applied Science. Lectures begin in Agriculture.
30	Wednesday	Lectures begin in Arts, Applied Science, and the Schools for Social Workers and Graduate Nurses.

OCTOBER, 1925

1	Thursday	
2	Friday	Meeting of the Faculty of Arts.
3	Saturday	
4	**SUNDAY**	
5	Monday	Meeting of the Faculty of Applied Science.
6	Tuesday	Founder's Day. General Convocation for Conferring Degrees. Opening Address for the Session. Library Committee,
7	Wednesday	Register closes in Medicine.
8	Thursday	Physics Building Committee.
9	Friday	Sports Day. No Lectures.
10	Saturday	
11	**SUNDAY**	
12	Monday	Summer Essays in Applied Science to be sent in. Museum Committee.
13	Tuesday	
14	Wednesday	Regular Meeting of Corporation.
15	Thursday	
16	Friday	
17	Saturday	
18	**SUNDAY**	
19	Monday	Engineering Building Committee. Chemistry and Mining Building Committee.
20	Tuesday	
21	Wednesday	Meeting of McCord National Museum Committee at 5 o'clock.
22	Thursday	
23	Friday	
24	Saturday	
25	**SUNDAY**	
26	Monday	
27	Tuesday	
28	Wednesday	
29	Thursday	
30	Friday	
31	Saturday	

NOVEMBER, 1925

1	**SUNDAY**	
2	Monday	Meeting of the Faculty of Applied Science.
3	Tuesday	
4	Wednesday	
5	Thursday	Concert by the Staff of the Conservatorium of Music.
6	Friday	Meeting of the Faculty of Arts.
7	Saturday	
8	**SUNDAY**	
9	Monday	Thanksgiving Day. No Lectures.
10	Tuesday	
11	Wednesday	
12	Thursday	
13	Friday	
14	Saturday	
15	**SUNDAY**	
16	Monday	Engineering Building Committee. Chemistry and Mining Building Committee.
17	Tuesday	
18	Wednesday	Meeting of the McCord National Museum Committee at 5 p.m.
19	Thursday	
20	Friday	
21	Saturday	
22	**SUNDAY**	
23	Monday	
24	Tuesday	
25	Wednesday	
26	Thursday	
27	Friday	
28	Saturday	
29	**SUNDAY**	
30	Monday	

DECEMBER, 1925

1	Tuesday	
2	Wednesday	
3	Thursday	Physics Building Committee.
4	Friday	Meeting of the Faculty of Arts.
5	Saturday	
6	**SUNDAY**	
7	Monday	Meeting of the Faculty of Applied Science. Museum Committee.
8	Tuesday	
9	Wednesday	Regular Meeting of Corporation.
10	Thursday	First Orchestral Concert, Faculty of Music.
11	Friday	
12	Saturday	
13	**SUNDAY**	
14	Monday	
15	Tuesday	
16	Wednesday	Meeting of the McCord National Museum Committee at 5 p.m.
17	Thursday	
18	Friday	
19	Saturday	Last day of lectures before Christmas.
20	**SUNDAY**	
21	Monday	Engineering Building Committee. Chemistry and Mining Building Committee.
22	Tuesday	
23	Wednesday	
24	Thursday	
25	Friday	Christmas Day.
26	Saturday	
27	**SUNDAY**	
28	Monday	
29	Tuesday	
30	Wednesday	
31	Thursday	

JANUARY, 1926

1	Friday	New Year's Day.
2	Saturday	
3	**SUNDAY**	
4	Monday	Lectures resumed in all Faculties. Meeting of the Faculty of Applied Science.
5	Tuesday	
6	Wednesday	
7	Thursday	
8	Friday	Meeting of the Faculty of Arts.
9	Saturday	
10	**SUNDAY**	
11	Monday	
12	Tuesday	Library Committee. First Term lectures end in Applied Science
13	Wednesday	
14	Thursday	
15	Friday	First Term Examinations in Applied Science begin.
16	Saturday	
17	**SUNDAY**	
18	Monday	Engineering Building Committee. Chemistry and Mining Building Committee.
19	Tuesday	
20	Wednesday	Second Term opens in Applied Science. Meeting of the McCord National Museum Committee at 5 p.m.
21	Thursday	
22	Friday	
23	Saturday	
24	**SUNDAY**	
25	Monday	
26	Tuesday	
27	Wednesday	
28	Thursday	
29	Friday	
30	Saturday	
31	**SUNDAY**	

FEBRUARY, 1926

1	Monday	Meeting of the Faculty of Applied Science.
2	Tuesday	
3	Wednesday	
4	Thursday	Physics Building Committee.
5	Friday	Meeting of the Faculty of Arts.
6	Saturday	
7	**SUNDAY**	
8	Monday	Museum Committee.
9	Tuesday	
10	Wednesday	Regular Meeting of Corporation. Founder's Day, Macdonald College.
11	Thursday	
12	Friday	
13	Saturday	
14	**SUNDAY**	
15	Monday	Engineering Building Committee. Chemistry and Mining Building Committee.
16	Tuesday	
17	Wednesday	Ash Wednesday. No lectures. Meeting of the McCord National Museum Committee at 5 p.m.
18	Thursday	
19	Friday	
20	Saturday	
21	**SUNDAY**	
22	Monday	
23	Tuesday	
24	Wednesday	
25	Thursday	Second Orchestral Concert.
26	Friday	
27	Saturday	
28	**SUNDAY**	

MARCH, 1926

1	Monday	Meeting of the Faculty of Applied Science.
2	Tuesday	
3	Wednesday	
4	Thursday	
5	Friday	Meeting of the Faculty of Arts.
6	Saturday	
7	**SUNDAY**	
8	Monday	
9	Tuesday	
10	Wednesday	
11	Thursday	
12	Friday	
13	Saturday	
14	**SUNDAY**	
15	Monday	Engineering Building Committee. Chemistry and Mining Building Committee.
16	Tuesday	
17	Wednesday	Meeting of the McCord National Museum Committee at 5 p.m.
18	Thursday	
19	Friday	
20	Saturday	
21	**SUNDAY**	
22	Monday	
23	Tuesday	
24	Wednesday	
25	Thursday	
26	Friday	
27	Saturday	
28	**SUNDAY**	
29	Monday	
30	Tuesday	
31	Wednesday	

APRIL, 1926

1	Thursday	
2	Friday	Good Friday. No lectures.
3	Saturday	No lectures.
4	**SUNDAY**	Easter Sunday.
5	Monday	Meeting of the Faculty of Applied Science.
6	Tuesday	Library Committee.
7	Wednesday	
8	Thursday	Physics Building Committee.
9	Friday	Meeting of the Faculty of Arts.
10	Saturday	
11	**SUNDAY**	
12	Monday	Museum Committee.
13	Tuesday	
14	Wednesday	Second term lectures end in Architecture and the first three years Applied Science. Regular meeting of Corporation.
15	Thursday	
16	Friday	
17	Saturday	
18	**SUNDAY**	
19	Monday	Sessional Examinations begin, in Architecture and the first three years Applied Science. Engineering Building Committee. Chemistry and Mining Building Committee.
20	Tuesday	
21	Wednesday	Meeting of the McCord National Museum Committee at 5 p.m.
22	Thursday	
23	Friday	
24	Saturday	
25	**SUNDAY**	
26	Monday	
27	Tuesday	
28	Wednesday	Lectures end.
29	Thursday	Third Orchestral Concert, Faculty of Music.
30	Friday	

MAY, 1926

1	Saturday	
2	**SUNDAY**	
3	Monday	Examinations begin. Meeting of the Faculty of Applied Science.
4	Tuesday	
5	Wednesday	Theory Examinations in Music begin.
6	Thursday	
7	Friday	Meeting of the Faculty of Arts.
8	Saturday	
9	**SUNDAY**	
10	Monday	
11	Tuesday	
12	Wednesday	
13	Thursday	
14	Friday	
15	Saturday	
16	**SUNDAY**	
17	Monday	Engineering Building Committee. Chemistry and Mining Building Committee. Practical Examinations in Music begin.
18	Tuesday	
19	Wednesday	Meeting of the McCord National Museum Committee at 5 p.m.
20	Thursday	
21	Friday	
22	Saturday	
23	**SUNDAY**	
24	Monday	Victoria Day
25	Tuesday	
26	Wednesday	
27	Thursday	
28	Friday	Convocation for Conferring Degrees.
29	Saturday	
30	**SUNDAY**	
31	Monday	

JUNE, 1926

1	Tuesday	
2	Wednesday	
3	Thursday	King's Birthday.
4	Friday	
5	Saturday	
6	**SUNDAY**	
7	Monday	
8	Tuesday	
9	Wednesday	Regular Meeting of Corporation.
10	Thursday	
11	Friday	
12	Saturday	
13	**SUNDAY**	
14	Monday	
15	Tuesday	
16	Wednesday	
17	Thursday	
18	Friday	
19	Saturday	Conservatorium closes.
20	**SUNDAY**	
21	Monday	
22	Tuesday	
23	Wednesday	
24	Thursday	
25	Friday	
26	Saturday	
27	**SUNDAY**	
28	Monday	
29	Tuesday	
30	Wednesday	

JULY, 1926

1	Thursday	Dominion Day.
2	Friday	
3	Saturday	
4	**SUNDAY**	
5	Monday	
6	Tuesday	
7	Wednesday	
8	Thursday	
9	Friday	
10	Saturday	
11	**SUNDAY**	
12	Monday	
13	Tuesday	
14	Wednesday	
15	Thursday	
16	Friday	
17	Saturday	
18	**SUNDAY**	
19	Monday	
20	Tuesday	
21	Wednesday	
22	Thursday	
23	Friday	
24	Saturday	
25	**SUNDAY**	
26	Monday	
27	Tuesday	
28	Wednesday	
29	Thursday	
30	Friday	
31	Saturday	

AUGUST, 1926

1	**SUNDAY**	
2	Monday	
3	Tuesday	
4	Wednesday	
5	Thursday	
6	Friday	
7	Saturday	
8	**SUNDAY**	
9	Monday	
10	Tuesday	
11	Wednesday	
12	Thursday	
13	Friday	
14	Saturday	
15	**SUNDAY**	
16	Monday	
17	Tuesday	
18	Wednesday	
19	Thursday	
20	Friday	
21	Saturday	
22	**SUNDAY**	
23	Monday	
24	Tuesday	
25	Wednesday	
26	Thursday	
27	Friday	
28	Saturday	
29	**SUNDAY**	
30	Monday	
31	Tuesday	

McGill University

HISTORY AND CONSTITUTION

FOUNDATION AND EARLY HISTORY

McGill University owes its origin to a private endowment. It was founded by the Hon. James McGill, a leading merchant and public-spirited citizen of Montreal, who died in 1813. By his will, dated January 8th, 1811, he bequeathed his property of Burnside (consisting of 46 acres of land with the dwelling-house and other buildings thereon) and a sum of £10,000 in money to found a college in a provincial university, the erection of which had already been provided for by the British Government. The four trustees appointed under his will were directed to convey the property of the bequest to the Royal Institution for the Advancement of Learning, a body which, in 1802, had been incorporated by the Legislature "for the establishment of free schools and the advancement of learning" in the Province of Quebec. The conditions upon which the property was to be transferred to the Royal Institution for the Advancement of Learning were, mainly, that the Institution should, within ten years after the testator's decease, erect and establish on his Burnside estate "a University or College, for the purposes of education and the advancement of learning in this Province," and that the college, or one of the colleges in the University, if established, should "be named and perpetually be known and distinguished by the appellation of McGill College." Owing to persistent opposition by the leaders of one section of the people to any system of governmental education and to the refusal of the Legislature to make the grants of land and money which had been promised, the proposed establishment of the provincial university by the British Government was abandoned.

In so far as the McGill College was concerned, however, the Royal Institution at once took action by applying for a Royal Charter. Such a charter was granted in 1821, and the Royal Institution prepared to take possession of the estate, but, owing to protracted litigation, this was not surrendered to them till 1829, when the work of teaching was begun in two faculties, Arts and Medicine. The record of the first thirty years of the University's existence is an unbroken tale of financial embarrassment and administrative difficulties. The charter was cumbrous and unwieldly, and unsuited to a small college

in the circumstances of this country, and the University, with the exception of its medical faculty, became almost extinct. But after thirty years the citizens of Montreal awoke to the value of the institution which was struggling in their midst. Several gentlemen undertook the responsibility of its reorganization, and, in 1852, an amended charter was secured. The Governor-General of Canada for the time being, Sir Edmund Head, became interested in its fortunes, and in 1855, with the advent of a new Principal, an era of progress and prosperity began.

HISTORICAL CALENDAR

October	6, 1744	James McGill born.
January	8, 1811	Date of Will of Hon. James McGill, bequeathing to certain persons, for transfer to the Royal Institution for the Advancement of Learning, his Burnside property of 46 acres and £10,000 in money, for the founding of McGill College.
December	19, 1813	James McGill died.
March	31, 1821	Royal Charter granted to the Royal Institution for the Advancement of Learning for the foundation of McGill College.
May	1, 1822	Montreal General Hospital opened for patients.
January	29, 1823	Charter granted to the Montreal General Hospital.
October	28, 1824	Lectures began in the Montreal Medical Institution.
January	29, 1829	Venerable Archdeacon Mountain appointed Principal. Teaching begun in two Faculties, Arts and Medicine.
June	28, 1829	The Montreal Medical Institution became the Medical Faculty of McGill University.
April	1834	Principal Mountain resigned.
April	22, 1834	Rev. T. T. Uxford appointed Principal.
July	13, 1835	Principal Uxford resigned.
November	18, 1835	Rev. John Bethune appointed Principal, pro tem.
July	12, 1843	Rev. John Bethune appointed Principal.
July	7, 1846	Principal Bethune resigned.
July	7, 1846	Mr. Edward Allen Meredith appointed Principal.
	1848	Course in Law begun in the Faculty of Arts.
	1852	Amended Charter obtained.
February	1, 1853	Principal Meredith resigned.
February	1, 1853	Hon. Mr. Justice C. D. Day appointed Principal, pro tem.

1853	Faculty of Law established.
September 8, 1855	Principal Day resigned.
September 8, 1855	Sir William Dawson appointed Principal.
1856	Course in Engineering begun in the Faculty of Arts.
October 10, 1862	William Molson Hall opened.
1863	Observatory opened.
1864	Congregational College of Canada opened in Montreal and affiliated to McGill University. (This College had been founded in Dundas, Ontario, in 1839.)
1865	Montreal Presbyterian College founded. (Work begun in the Lecture Hall of Erskine Church, corner of St. Catherine and Windsor Streets.)
1870	Courses of lectures by McGill Professors established for women.
1871	Engineering Course amplified into the Department of Practical Science in the Faculty of Arts.
1872	Work of the Faculty of Medicine transferred from their downtown quarters to the McGill Campus.
1873	Diocesan College founded.
1873	First Montreal Presbyterian College Building erected.
1875	Wesleyan Theological College opened.
1878	Faculty of Applied Science organized.
1879	Wesleyan Theological College affiliated to McGill University.
1880	Diocesan College affiliated to McGill University.
August 16, 1882	Peter Redpath Museum opened.
1882	Presbyterian College enlarged by the erection of the David Morrice Hall.
1883	Old Wesleyan Theological College erected.
1884	Present Congregational College Buildings opened. (From 1864 to 1884 the work of the College had been carried on first in Zion Church and afterwards in Emmanuel Church.)
1884	Women admitted to courses in Arts leading to degrees, under the Donalda endowment.
February 24, 1893	Macdonald Physics and Engineering Buildings opened.
July 31, 1893	Sir William Dawson resigned the Principalship.
October 31, 1893	Redpath Library opened.
1894	Observatory enlarged.
1894	Royal Victoria Hospital opened.
August 7, 1895	Sir William Peterson appointed Principal.

1895	A tract of about 35 acres, comprising the top of Westmount Mountain, purchased and donated to the University by Sir William Macdonald.
1896	Present Montreal Diocesan College Buildings opened.
1896	Department of Architecture established.
December 20, 1898	Macdonald Chemistry and Mining Buildings opened.
September 4, 1899	Royal Victoria College for women opened.
November 18, 1899	Sir William Dawson died.
September 18, 1901	Strathcona Medical Building opened.
1903	Dental Department opened in connection with the Faculty of Medicine.
October 14, 1904	Conservatorium of Music opened.
1905	Strathcona Hall opened. (This is the home of the Students' Christian Association of McGill University.)
1905	The Medical Faculty of Bishop's College amalgamated with McGill.
1906	McGill Union (the students' social centre) opened.
1906	Department of Commerce established under the Faculty of Arts.
April 5, 1907	Macdonald Engineering Building burned.
" 16, 1907	Medical Building burned.
" 24, 1907	Faculty of Agriculture established.
November 5, 1907	Macdonald College opened.
April 27, 1909	New Engineering Building opened.
1909	Power Plant erected.
1909	Joseph property, at the south-west corner of the McGill Campus, purchased and donated to the University by Sir William Macdonald.
June 5, 1911	New Medical Building opened.
July 4, 1911	Gift of Frothingham, Molson and Law properties (25 acres) from Sir William Macdonald.
November 20-24, 1911	$1,500,000.00 raised chiefly from the citizens of Montreal as a general endowment for the University.
1912	Montreal Co-operating Theological Colleges established. (This is a union of the Congregational, Diocesan, Presbyterian and Wesleyan Colleges for a certain number of lecture courses.)
1912	McGill School of Physical Education established.
1913	New Wesleyan Theological College opened.

	1915	McGill Stadium completed. (This was erected on Macdonald Park, which was donated to the University by Sir William Macdonald in 1911.)
	1917	Montreal College of Pharmacy incorporated with McGill University as the Department of Pharmacy of the Faculty of Medicine.
February	25, 1918	Gift of $1,000,000 from the Carnegie Corporation of New York "in recognition of the noble and devoted service and sacrifice of McGill towards Canada's part in the Great War."
May	1, 1918	Sir William Peterson resigned the Principalship on account of ill-health.
	1918	Department of Social Science established.
October	25, 1919	Name of the McGill Stadium changed to "The Percival Molson Stadium" and formally dedicated to the memory of the late Percival Molson, who was killed in the Great War and who bequeathed $75,000 for its erection.
	1919	Faculty of Dentistry established.
	1920	Faculty of Music established.
	1920	School for Graduate Nurses established.
August	1, 1920	Sir Arthur Currie appointed Principal.
November to November	15, 1920 to 20, 1920	Over $4,000,000 subscribed by citizens of Montreal and graduates for the funds of the University; also $1,000,000 granted for the same purpose by the Government of the Province of Quebec, and $1,000,000 by the Rockefeller Foundation of New York for medical education.
January	4, 1921	Sir William Peterson died.
October	26, 1922	Biological Building opened.
June	5, 1924	Gift of $500,000 from the Rockefeller Foundation for the purpose of establishing a medical clinic.
October	6, 1924	Pathological Institute opened.
May	28, 1925	Roddick Memorial Gates opened.

GOVERNMENT OF THE UNIVERSITY

By the Charter "the Governors, Principal, and Fellows" of the **University** are constituted a body politic and corporate, with all the usual rights and privileges of corporate bodies. The supreme authority, however, is vested in the Crown, and is exercised by his Excellency the Governor-General of Canada, for the time being, as **Visitor.** This is a special and important feature of the constitu-

tion, for, while it gives the University an imperial character and removes it at once from any merely local or party influence, it secures the patronage of the head of the political system of the country.

The **Governors** of the University are the members of the Royal Institution for the Advancement of Learning, above mentioned, and in them are vested the management of finances, the passing of University statutes and ordinances, the appointment of professors, and other important duties. Their number is limited to twenty-five. Three of these are elected by the members of the Graduates' Society and other appointments are made by the nomination of the remaining members with the approval of the Visitor. The President of the Board of Governors is ex-officio Chancellor of the University.

The **Principal** is the academic head and chief administrative officer. He is appointed by the Board of Governors (of which body he is a member ex-officio). He also holds the office of Vice-Chancellor of the University.

The **Fellows** (45 in number) are selected with reference to the representation of all the faculties and departments of the University, and of the graduates, affiliated colleges, and other bodies.

The Governors, Principal and Fellows together constitute the **Corporation,** the highest academical body. Its powers are fixed by statute and include the framing of all regulations touching courses of study, matriculation, graduation, discipline and the granting of degrees.

The carrying out of the regulations of Corporation along with primary responsibility for the conduct of the educational work of the University is entrusted to the several **Faculties.**

INCORPORATED AND AFFILIATED COLLEGES

INCORPORATED COLLEGES

Macdonald College is situated at Ste. Anne de Bellevue, about twenty miles from Montreal. It consists of three departments:—The School of Agriculture, the School of Household Science, and the School of Teachers. Courses leading to the Bachelor's and Master's degrees in Agriculture are under the control of the Corporation of McGill University; all the short term courses in agriculture, as well as the courses in domestic science, are under the direction of the Executive Committee of Macdonald College, and those for diplomas to teach in the Province of Quebec are subject to the immediate supervision of the Teachers' Training Committee. Full information is given in the Macdonald College Announcement, which will be sent on application to the Principal, Macdonald College, Que.

The Royal Victoria College is the women's College of McGill University for courses in the Faculty of Arts. For further particulars, see pages 190 to 194.

AFFILIATED COLLEGES

Acadia, Alberta and Mount Allison Universities and the University of St. Francis Xavier's College are affiliated to McGill University to the extent that students who have completed the two-year course in engineering given by these universities are admitted directly to the Third Year in any of the engineering courses in the Faculty of Applied Science.

Students from these universities entering the Third Year must take the summer school suitable to their course, in May, or the special school in September, which will open in 1925 about September 1st in Chemical, Mechanical and Metallurgical Engineering, and on September 14th in Civil and Mining Engineering.

Royal Military College.—Graduates of the Royal Military College of Kingston are admitted to the Third Year in the several engineering departments of the Faculty of Applied Science. They must in all cases take the respective summer schools pertaining to these several courses, which are held in September, as per the preceding paragraph.

Arrangements have also been made whereby graduates and students of the Mechanical Science course in the University of Cambridge will be admitted to advanced standing in the Faculty of

Applied Science under definite regulations, particulars of which can be obtained from the Dean of the Faculty.

AFFILIATED THEOLOGICAL COLLEGES

The Theological Colleges named below are affiliated to the University under the following arrangements:—Students in these institutions who are pursuing a double course in Arts and Theology (six years at least) will be exempted from a half course in Arts in each of the Third and Fourth Years or a whole course in either.

The Congregational College of Canada, Montreal.—Principal, Rev. D. L. Ritchie, B.A., D.D., 58 McTavish St.

The Diocesan College of Montreal.—Principal, Rev. E. I. Rexford, M.A., LL.D., 734 University St.

The Presbyterian College, Montreal, in connection with the Presbyterian Church in Canada.—Principal, Rev. D. J. Fraser, M.A., LL.D., D.D., 69 McTavish St.

The Wesleyan College of Montreal. — Principal, Rev. James Smyth, LL.D., 760 University St.

A movement was inaugurated in the session 1912-13 for a large measure of co-operation among the above Colleges, with the result that a considerable portion of the work which had hitherto been done separately is now taken in joint classes.

For Calendars and all necessary information, apply to the Principals of the several Colleges.

AFFILIATION TO OTHER UNIVERSITIES

The University is affiliated to the universities of Oxford, Cambridge and Dublin, under conditions which allow an undergraduate who has taken two years' work, and has passed the Second Year sessional examination in Arts, to pursue his studies and take his degree at any of these universities on a reduced period of residence.

CLASSES OF STUDENTS

There are five classes of students in the University:

(1) Graduates—students who have previously obtained an ordinary degree at McGill, or elsewhere, and who are now pursuing courses for the Master's degree, or for the degree of Ph.D.

(2) Undergraduates — students who have passed the matriculation examination and, in the case of Second, Third and Fourth Year students, all the examinations of their course in the Years below that in which they are registered.

(3) Conditioned undergraduates—those who have failed in one or more of the subjects of their course in the Year below that in which they are registered.

(4) Partial students—comprising all those who, not belonging to one of the above classes, are taking a partial course of study in the University. In order to obtain admission, such students must pass the matriculation examination in the subject, or subjects, which they wish to take, or, failing this, must be able to satisfy the Head of the Department concerned that they are qualified to proceed with the courses.

(5) Limited undergraduates—students in the Faculty of Arts who have matriculated, but who for special reasons are not able to follow the regular curriculum of four years. Such students may, if the reasons advanced appear satisfactory to the Dean, be given the status of Limited Undergraduates and may distribute their work for the degree over five, but not over more than eight years, on the understanding that the sequence and arrangement of courses shall follow the requirements laid down in the regular undergraduate curriculum, and shall conform to the time-table.
Limited Undergraduates will not be eligible for Honour courses, scholarships, exhibitions, bursaries or prizes of any description.

FACULTIES, COURSES AND DEGREES

The educational work of the University is carried on in McGill College, the Royal Victoria College for Women, and other University buildings in Montreal; and also in Macdonald College at Ste. Anne de Bellevue.

COURSES FOR DEGREES AND DIPLOMAS

The several courses offered by the University are as follows:—

In the Faculty of Arts.

For the degree of Bachelor of Arts (B.A.).
" " " " Bachelor of Science (B.Sc. in Arts).
" " " " Bachelor of Commerce (B. Com.).

The undergraduate courses of study which lead to the degree of B.A. or B.Sc. extend over four sessions of eight months each. In the Second, Third and Fourth years extensive options are provided, and certain exemptions are also allowed to professional students. See pages 141 to 144.

The course for the degree of Bachelor of Commerce extends over four years. (Full information is given on pages 195 to 208.)

The following courses are also offered:—One leading to the degree of Bachelor of Science in Agriculture, with the privilege of qualifying for a First Class High School Diploma; and another to the degree of Bachelor of Household Science. The first two years are taken in the Faculty of Arts and the last two in the Faculty of Agriculture, or the School of Household Science, as the case may be. Details of these two courses will be found on pages 136 to 138.

The undergraduate course in Arts can be taken along with the undergraduate course in Medicine, in eight years, with that in Applied Science or Dentistry, in six years, and with the course in Architecture in seven.

The courses in Arts are open to women (who are educated mainly in separate classes) on equal terms with men. Residential accommodation for women students is provided in the Royal Victoria College. Further particulars are given on pages 190 to 194.

Holders of the degree of B.A. from this University are admitted to the study of the learned professions, without preliminary examination, in the different provinces of Canada, and in Great Britain and Ireland,

and elsewhere. They will also be granted First Class High School Diplomas to teach in the Province of Quebec, provided they have passed an examination in pedagogy and have taught, under supervision, for the time required by law.

In the Faculty of Applied Science.

For the degree of Bachelor of Architecture (B.Arch.).

For the degree of Bachelor of Science (B.Sc.), in the departments of Chemical, Civil, Electrical, Mechanical, Metallurgical, and Mining Engineering.

The undergraduates courses of study for the degree of B.Sc. extend over four sessions, averaging (with summer sessions) about eight months each, and provide a thorough professional training in the departments mentioned above. The course for the degree of B.Arch. extends over five years. Full particulars are given on pages 209 to 289.

The undergraduate course in Arts can be taken along with the undergraduate course in Applied Science in six years, and with that in Architecture in seven.

In the Faculty of Law.

For the degree of Bachelor of Civil Law (B.C.L.).

The undergraduate course for this degree extends over three sessions of eight and a half months each.

In the Faculty of Medicine.

For the degree of Doctor of Medicine and Master of Surgery (M.D., C.M.).

For the degree of B.Sc. in Medicine.
For the Diploma of Public Health.
For the Diploma of Pharmacy.

The undergraduate course of study leading to the degree of M.D., C.M., extends over five sessions of eight months each following two pre-medical years. Further information will be found on pages 290 to 331.

The undergraduate course in Arts can be taken along with the undergraduate course in Medicine in eight years.

In Macdonald College.

For the degree of Bachelor of Science in Agriculture (B.Sc. in Agriculture and B.S.A.).

Other courses in the School of Agriculture.

For the degree of Bachelor of Household Science (B.H.S.), two years in Arts, and two in the School of Household Science.

Other courses in the School of Household Science.

The several courses for teachers' diplomas.

The course of study for the degree of Bachelor of Science in Agriculture extends over four sessions of about eight months each. It aims to provide a thorough theoretical and practical training in the several branches of the science.

The Macdonald College Announcement, containing full details as to buildings, courses, terms of admission, fees, etc., can be obtained from the Principal, Macdonald College P.O., Que.

In the Faculty of Dentistry.

For the degree of Doctor of Dental Surgery (D.D.S.).

The undergraduate course of study leading to the degree of D.D.S. extends over four sessions of eight months each. For further particulars, see pages 352 to 371.

The undergraduate course in Arts can be taken along with the undergraduate course in Dentistry in six years.

In the Faculty of Music.

For the degree of Bachelor of Music (Mus. Bac.).

For the Diploma of Licentiate in Music, and the several Grade examination certificates.

Students are admitted as *Regular Students* taking an organized course leading to the diploma of Licentiate in Music or the degree of Bachelor of Music or as *Partial Students,* who, under certain conditions and after examination, can obtain certificates bearing the imprimatur of the University. Full details can be obtained on application to the Secretary of the McGill Conservatorium of Music, 323 Sherbrooke St. West, Montreal.

In the Faculty of Graduate Studies and Research.

For the degrees of Master of Arts (M.A.), Master of Science (M.Sc.), Master of Science in Agriculture (M.S.A.), Doctor of Philosophy (Ph.D.), Doctor of Science (D.Sc.), Doctor of Literature (Litt.D.), Doctor of Civil Law (D.C.L.), and Doctor of Music (Mus. Doc.).

The degree of Doctor of Laws is given only as an honorary degree.

The Course for the First Class High School Diploma of the Province of Quebec.

Certain courses are given by the Department of Education, which when supplemented by practice teaching and observation (except in the case of holders of the Intermediate Diploma, who have already satisfied these requirements) lead to a First Class High School Diploma on graduation.

The latter diploma can also be obtained by those who qualify for the degree of B.Sc. in Agriculture by taking two years in Arts, followed by two in the Faculty of Agriculture. (See page 136.)

School for Graduate Nurses.

Three courses, each covering an academic year, and leading to a certificate: (a) For Public Health Nursing; (b) Teaching in Schools of Nursing; (c) Administration in Schools of Nursing; (d) Supervision in Schools of Nursing.

School of Physical Education.

Two-year course, leading to a diploma.

School for Social Workers.

A Diploma Course extending over two years.

Extension Courses.

Afternoon and evening lectures on a variety of subjects. A special announcement will be issued before the opening of the session.

ENTRANCE REQUIREMENTS

JUNIOR MATRICULATION

(For admission to the Faculties of Arts, Applied Science, Music, Agriculture and the School of Physical Education.)

I. REGULATIONS.

1. Junior Matriculation examinations are held in June, September and January—in June at McGill University and local centres; in September and January, at Montreal only, except in cases which require special consideration. The September and January examinations will be on the work prescribed for the preceding June.

ALL INQUIRIES RELATING TO THE EXAMINATION SHOULD BE ADDRESSED TO THE REGISTRAR OF THE UNIVERSITY.

For the convenience of candidates in Great Britain, who are not otherwise qualified for entrance, an examination will be held regularly in London, Eng., each year, commencing on or about the 16th of June. Full information regarding the exact date of the examination, fee, etc., may be obtained from the Honorary Representative of the University, W. A. Bulkeley-Evans, Esq., M.A., Secretary, Headmasters' Conference, 5 Paper Buildings, Temple, London, E.C. 4.

2. Every candidate for examination is required to fill up an application form and return the same with the necessary fee (for which see page 59) one month before the examination begins. Blank forms may be obtained from the Registrar.

No application for the examination in June, at outside centres, will be received after May 15th.

3. In order to pass, a candidate must obtain 60 per cent. of the aggregate for all subjects of the Matriculation Examination, and not less than 40 per cent. in any paper (in the Faculty of Applied Science 50 per cent.); provided, however, that a candidate who makes an exceptionally high aggregate, but fails in one paper only, may be admitted at the discretion of the Faculty concerned. Credit will be given only for papers passed at two regular Matriculation Examinations held in a single calendar year.

This regulation also applies in the case of certificates granted by other recognized examining bodies.

For regulations for admission to the Faculty of Applied Science in 1927, see page 75.

4. Matriculation certificates will be issued to candidates who have passed the entrance examination conducted by the University, but not to those who have qualified by means of certificates, except when the greater part of the requirements has been satisfied by passing the University examination.

5. The certificates and diplomas named below will (if they have been obtained under no easier conditions than those which apply in the case of the McGill Matriculation certificate) be accepted *pro tanto* in lieu of the junior matriculation examination, *i.e.*, in so far as the subjects and standard of the examination taken to obtain them are, to the satisfaction of the Matriculation Board, equivalent to those required for the matriculation examination of this University. Candidates offering certificates which are not a full equivalent will be required to pass in the remaining subjects under the provisions of Regulation 3.

Intending students who wish to enter by certificates should under no circumstances come to the University without having first obtained from the Registrar a statement of the value of the certificates they hold, as many may lack one or more essential subjects, or the work done in a subject may not be adequate, or again, the percentage gained may not be sufficiently high (see regulation 3). Moreover, it must be remembered that a certificate may admit to one Faculty or Department and not to another. When a diploma or certificate does not show the marks obtained in the several subjects of the examination, it must be accompanied by an official statement containing this information.

Province of Quebec.

The University School Leaving Certificate.
The Intermediate School Diploma.

Province of Ontario.

Certificate of entrance to the Normal Schools.
Junior Matriculation Certificate.

Province of New Brunswick.

First Class, Superior and Grammar School Licenses.
Grade XI Certificate.

Province of Nova Scotia.

Grade XI Certificate.

Province of Prince Edward Island.

First Class Teachers' License.

Second Year Certificate of Prince of Wales College.

Province of British Columbia.

Intermediate Grade Certificate.

Province of Manitoba.

Second Class Teachers' Certificate.

Grade XI Certificate.

Provinces of Alberta and Saskatchewan.

The Departmental Certificate of Standard XI.

Newfoundland.

Associate Grade Certificate.

United States.

Certificates granted by the College Entrance Examination Board and by the New York State Board of Regents.

Great Britain.

The holder of a Higher Certificate or a School Certificate of the Oxford and Cambridge Schools Examination Board, of the Senior Certificate of the Oxford or Cambridge Board of Examiners, of a First Class Certificate of the College of Preceptors or of a Higher Examination Certificate of the Scotch and Welsh Educational Departments is entitled to exemption from the matriculation examination, *pro tanto*, if the candidate has at one and the same examination passed in certain specified subjects.

Applications for exemption from the matriculation examination, based upon certificates of having passed examinations other than those above mentioned, will be considered as occasion may require. Every such application must be accompanied by certificates and full particulars, and should be addressed to the Registrar.

II. JUNIOR MATRICULATION EXAMINATION FEES.

For an examination in six or more papers..... $7.00

(For an examination at a local centre where not more than four candidates are writing, the fee will be determined by the Registrar.)

For an examination in from three to five papers..... 4.00

For an examination in one or two papers..... 2.00

Matriculation examination fees must be sent to the University Registrar at the time of application for the examination. No application will be accepted unless accompanied by the regular fee.

Certificates will be issued to successful candidates without additional fee.

III. SUBJECTS OF EXAMINATION.

Faculty of Arts

A. *For admission to the B.A. course.*

	Marks Assigned	
1.	200	**English.**
2.	100	**History.**
3.	200	**Latin** *or* **Greek.**
4.	200	One of the following:— **Greek** *or* **Latin** (the one not already chosen), **French, German.**
5.	200	**Elementary Mathematics.**
6.	100	One of the following:— **Botany, Chemistry, Physics, Physical Geography, Advanced Mathematics,** a **foreign language** not already chosen. (*Candidates are advised to choose Physics under this head.*)
	Total 1,000	

Physics is compulsory for those who intend ultimately to study medicine.

Holders of Intermediate Diplomas who obtained a School Leaving Certificate and who are certified by the Dean of the School for Teachers of Macdonald College to have taken 75 per cent. of the total marks at their final examinations, with not less than 50 per cent. of the marks in (1) mathematics, (2) French, and (3) Latin or Greek, respectively, will be admitted without further examination as undergraduates of the First Year in Arts.

B. *For admission to the B.Sc. course in Arts.*

	Marks Assigned	
1.	200	**English.**
2.	100	**History.**
3.	200	**French.**
4.	200	**Latin** *or* **Advanced Mathematics** *or* two subjects under No. 6.
5.	200	**Elementary Mathematics.**

6.	100	One of the following:— **Botany, Chemistry, Physics, Physical Geography,** *or* (for those who have already taken two of these subjects under No. 4), **Drawing, Advanced Mathematics,** a second **foreign language.** (*Candidates are advised to choose Physics under this head.*)

Total 1,000

Latin and Physics are compulsory for those who intend ultimately to study Medicine.

C. *For admission to the School of Commerce.*

The matriculation examination for the B.A., or the B.Sc. Course in Arts, but German or Spanish may be substituted for French.

Faculty of Applied Science

A. *For all courses leading to the degree of B.Sc. in the different branches of Engineering.*

	Marks Assigned	
1.	200	**English.**
2.	100	**History.**
3.	200	One of the following:— **French, German, Spanish, Latin, Greek.**
4.	200	**Elementary Mathematics.**
5.	200	**Advanced Mathematics.**
6.	100	One of the following:— **Botany, Chemistry, Physics, Physical Geography,** a **Language** not already chosen. (*Candidates are advised to take Physics under this head.*)

Total 1,000

B. *For the course leading to the Degree of B. Arch.*

The same as for entrance to the Engineering Course, as shown above with Freehand and Geometrical Drawing added.

In the case of Drawing, applicants may send specimens of their work to the Head of the Department or take an examination at the time of the regular matriculation examination in September. No examinations taken elsewhere are accepted as an equivalent and no student will be admitted to the Department as an undergraduate until he has satisfied the matriculation requirements in this subject.

Faculty of Agriculture

	Marks Assigned	
1.	200	**English.**
2.	100	**History.**
3.	200	**Latin** *or* **French** *or* **German** *or* **Spanish** (French preferred).
4.	200	**Elementary Mathematics.**
5.	100	Any one of the following:—**Botany, Chemistry, Physics, Zoology, Psysical Geography.**
Total	800	

A School Leaving Certificate of the Province of Quebec or an Intermediate Diploma, or a matriculation certificate for entrance to any other Faculty of the University will also be accepted.

Candidates, without academic training sufficient to qualify for entrance by any of the methods above, who are at least twenty years of age and possess a substantial farm experience, together with mental endowments sufficient to successfully undertake the course despite some academic handicap, may be admitted to the course by an Admission Committee, provided that students so admitted be required to obtain matriculation standing before enterting the Third Year.

Opportunity for Matriculation.—A limited number of students who have not matriculation standing, but who think they might be able to obtain it after one or two years' study, can be accommodated in residence and take work at the High School, provided they are sufficiently advanced to enter Grade X or XI.

School of Physical Education

The subjects required for the Faculty of Agriculture, as shown above.

Faculty of Music

	Marks Assigned	
1.	200	**English.**
2.	100	**History.**
3.	400	Two of the following:—**French, German, Spanish, Italian, Latin.**
4.	100	**Arithmetic** *or* **Algebra** *or* **Geometry.**
5.	100	**Rudiments of Music:** musical intervals, scales, clefs, time signatures, construction of chords, elementary harmony to chord of dominant seventh.
Total	900	

IV. REQUIREMENTS IN EACH SUBJECT.

For 1926 and 1927.

Arithmetic.

All the ordinary rules.
One examination paper.

History and Historical Geography.

Candidates may choose any one of the following:—

(1) General History from 1300 A.D. to the present time. West's World Progress (Allyn & Bacon), pp. 305 to the end, which is authorized for the schools of the Province of Quebec, indicates the scope of the examination. (Chapters XXXII, XXXIII, XXXVIII, XL, XLI, XLVIII, XLIX, L, LI, LV, LVI, LIX, LX, LXI, LXII will be for reading only.) Any standard General History covering the same ground may be used instead.

(2) Ancient History to 14 A.D. *Text-Book:*—Botsford's History of the Ancient World, *or* the High School Ancient History (The Macmillan Company of Canada).

(3) British History from 1714 to the present time. *Text-Book:*—The Groundwork of British History by Warner and Marten (Blackie & Sons, Edinburgh), Part III., with appendices.

The geography required will be that relating to the history prescribed. An option will be set on the Ontario requirements in this subject.

One examination paper.

English.

A. *Composition.* As in the Ontario High School Composition, pages 198 to the end (Copp, Clark Co.), with a short essay on a general subject and two or three others based on the works prescribed for reading, as follows:—Shakespeare, Richard II (Macmillan*); Thackeray, Henry Esmond (Macmillan*); Selected English Essays (Dent).

These books should be read carefully, but the students' attention should not be so fixed upon details that he fails to appreciate the main purpose and beauty of the work.

Frequent practice in composition is essential.

B. *Literature* (for critical study).—Shakespeare, Macbeth (Copp, Clark Co.*); Poems of the Romantic Revival, pages 29-56 and 107-162 (Copp, Clark Co., Ltd., Toronto).

Passages for memorization:—

The Prelude, lines 40-56; The Rainbow, the whole; Ode on Intimations of Immortality, lines 58-66; She Dwelt among the Untrodden Ways, the whole; The World is too Much with us, the whole; Ode to a Nightingale, lines 61-70; Songs from Pippa Passes, lines 1 to 8; The Italian in England, lines 145-160; Andrea del Sarto, lines 69-98; Asolando, lines 11-20; King Richard II, Act I, Scene I, lines 176-185; Act I, Scene III, lines 227-232; Act I, Scene III, lines 275-293; Act II, Scene II, lines 14-24; Macbeth, Act I, Scene VII, lines 1-7; Act II, Scene I, lines 33-43; Act II, Scene II, lines 35-40; Act III, Scene II, lines 13-26; Act V, Scene III, lines 40-45; Act V, Scene V, lines 17-28.

Candidates will also be expected to commit to memory other passages of a striking nature, but not exceeding 25 per cent. of the amount prescribed.

Two examination papers; one on Composition and the other on Literature (for critical study).

An alternative paper will be set on the work specified in English for the Junior Matriculation examination of the Province of Ontario.

Spelling will be tested by the candidates' papers in English. Examiners in other subjects will also take note of mis-spelled words and will report flagrant cases to the Board.

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*These editions are recommended, not prescribed.

Greek.

Texts.—Philpotts and Jerram, Easy Selections from Xenophon, chaps. 3, 4, 5; Homer, Iliad I, lines 1 to 350.

Grammar.—Knowledge of grammar will be tested by translation and by grammatical questions based on the specified texts.

Translation at Sight from Greek into English.

Two examination papers; one on Xenophon and Composition, the other on Homer and Translation at Sight.

Alternative questions will be set on the work prescribed in Greek for the Junior Matriculation Examination of the Province of Ontario, if this differs from that specified above.

Latin.

Texts (Translation and Grammatical study).

Cornelius Nepos, "Lives"—Miltiades, Themistocles and Aristides (Elementary Classics, Macmillan); Virgil, Aeneid, Book II.

Grammar.—Knowledge of grammar will be tested by translation and composition, and by grammatical questions based on the specified texts.

Translation at Sight from Latin into English.

Composition.—Translation into Latin of detached English sentences and easy narrative based on the prescribed texts.

Two examination papers; one on Nepos and Composition, and the other on Virgil and Translation at Sight.

Note.—The "Roman" method of pronouncing Latin is recommended.

An alternative paper will be set on the Latin texts prescribed for the Junior Matriculation examination of the Province of Ontario, if these differ from those specified above.

French.

Prescribed texts:—Daudet, Trois contes choisis (Heath); Jules Girardin, Les braves gens (Oxford University Press, Toronto).

Grammar.—A thorough knowledge of French accidence and of those points of syntax which are of more frequent occurrence in an ordinary easy style.

Translation into English from prescribed texts and at sight of a French passage of moderate difficulty.

Translation at Sight into French of detached English sentences and an easy English passage. Material for such translation is selected with a view to testing the candidate's general knowledge of French grammar.

Books recommended:—Fraser and Squair's French Grammar or Bertenshaw's French Grammar (Longmans), and Cameron's Elements of French Prose Composition (Holt & Co.).

Two examination papers; one on prescribed texts and grammar, including translation of short English sentences into French, and one on translation of continuous passages from French into English and from English into French.

German.

Texts.—(Translation and grammatical study):—

Guerber, Märchen und Erzählungen (Heath), omitting Nos. 3, 4, 10, 14 and Poems; Baumbach, Der Schwiegersohn (Copp Clark Co.).

Grammar.—A thorough knowledge of German accidence and syntax, as in Van der Smissen, or any other German grammar of equally good standing.

Translation at Sight into English of a German passage of moderate difficulty.

Translation into German of detached English sentences and of an easy English passage. Material for such translation is selected with a view to exemplifying the points of grammar included within the above limits.

The Ontario Junior Matriculation requirements in German will be accepted in place of the texts specified above.

Two papers; one on prescribed texts and grammar, including translation of short English sentences into German, and one on translation of continuous passages from German into English and from English into German.

Spanish.

Translation from English into Spanish of short sentences involving important rules of syntax; translation from prescribed books; unseen translation from Spanish into English; Spanish composition; the translation of easy continuous prose passages from English into Spanish.

Two papers; one on prescribed texts and grammar, including translation of short English sentences into Spanish and one on trans-

lation of continuous passages from Spanish into English and from Eglish into Spanish.

Books recommended:—Elementary Spanish grammar, Sanin Cano (Oxford Press); Spanish Composition, Loiseaux (Silver, Burdett & Company).

Prescribed books:—Novelas Cortas by Alarcon (Ginn & Company); Spanish Reader, Sanin Cano (Oxford Press).

Italian.

Prescribed texts:—Bowen's Italian Reader (Heath); Manzoni, I promessi spisi.

Grammar.—A thorough knowledge of Italian accidence and of those points of syntax which are of more frequent occurrence in an ordinary easy style.

Translation at Sight into English of an Italian passage of moderate difficulty.

Translation into Italian of detached English sentences and an easy English passage. Material for such translation is selected with a view to testing the candidate's general knowledge of Italian grammar.

Books recommended:—Grandgent's Italian Grammar (Heath); Grandgent's Italian Composition (Heath).

Two papers will be set; one on grammar, including translation of short English sentences into Italian, and one on translation of continuous passages from Italian into English (from prescribed texts) and from English into Italian.

Elementary Mathematics.

Algebra. — Elementary rules, involution, evolution, fractions, indices, surds, simple and quadratic equations of one or more unknown quantities, as in Hall and Knight's Elementary Algebra, to the end of surds, pp. 1-269 (omitting portions marked with an asterisk), or as in similar text-books.

One examination paper.

Geometry.—The paper shall contain questions on practical and on theoretical geometry.

In practical geometry, where the validity of a construction is not obvious, the reasoning by which it is justified may be required. Every candidate shall provide himself with a ruler graduated in inches and tenths of an inch, and in centimetres and millimetres, a set square,

a protractor, compasses and a hard pencil. All figures should be drawn accurately.

The questions on theoretical geometry shall consist of theorems contained in the text-book prescribed, together with questions upon these theorems, easy deductions from them, and arithmetical illustrations. Any proof of a proposition will be accepted if it forms part of a systematic treatment of the subject.

In the proof of theorems and deductions from them, the use of hypothetical constructions will be permitted. Proofs which are only applicable to commensurable magnitudes will be accepted.

Text-book recommended:—Hall and Stevens' School Geometry, pp. 1-203, 219-265; 267-269 and 274-276 and Theorems 70, 71, 72.

One examination paper.

Advanced Mathematics.

Algebra.—The three progressions, ratio, proportion, variation, permutations and combinations, binomial theorem, logarithms, theory of quadratic equations, as in the remainder of Hall and Knight's Elementary Algebra (omitting chaps. 40 to 44 inclusive), or as in similar text-books.

One examination paper.

Geometry.—As in Hall and Stevens' School Geometry, pp. 202-212, 266-269, 280-310, 319-322, and also Godfrey and Siddons Elementary Geometry (Pitt Press, Cambridge), pp. 143-153 and 288-294, or as in similar text-books. Candidates are expected to be familiar with the use of squared paper, in the location of points, finding areas of rectilinear and curvilinear figures, plotting loci (in particular the ellipse, hyperbola and parabola) and the plotting of loci as envelopes.

An option will be set in Geometry on the work prescribed for Honour Matriculation in the Province of Ontario.

Trigonometry.—Measurement of angles, trigonometrical ratios or functions of one angle, of two angles, and of a multiple angle; as in Lock's Elementary Trigonometry, Chaps. I to XII; Hall and Knight's Trigonometry, Chaps. I to XII, inclusive; or as in similar text-books.

Geometry and Trigonometry will be included in one examination paper.

Chemistry.

Elementary inorganic chemistry, comprising the preparation and properties of the chief non-metallic elements and their more important compounds, the laws of chemical action, combining weight, etc.

Text-book:—"Elementary Chemistry for High Schools," by Nevil Norton Evans (Educational Book Company, Limited, Toronto), Chaps. I to XVI inclusive.

One examination paper.

Physics.

Properties of matter; elementary mechanics of solids and fluids, including the laws of motion, simple machines, work, energy; fluid pressure and specific gravity; thermometry, the effects and modes of transmission of heat.

Text-book recommended:—High School Physics, by Merchant and Chant (revised edition), Parts I, II, III, IV and VI, or the equivalent in other text-books.

One examination paper.

Physical Geography.

Tarr's New Physical Geography, Chaps. I to XIV and Appendices A to H, inclusive.

One examination paper.

Botany.

Candidates will be examined on the following schedule, both parts:—

PART A.

The Plant Cell:—the cell-wall; the cytoplasm; the nucleus; the chloroplasts in green cells; movements of cytoplasm.

Seeds: structure; modifications which aid in dispersal; nature of the stored food; the digestion of foods by means of enzymes; germination.

Seedlings: different types; the relation of growth to temperature, light and moisture.

Roots: structure; region of growth; osmosis; the absorption of water and solutions of mineral nutrients; modifications, especially in connection with the storage of foods.

Stems: structure of the principal types; growth in length and thickness; the transfer of water and of mineral nutrients from roots to leaves; the transfer of prepared foods from leaves to other parts of a plant; the storage of food in stems; the making of maple sugar; climbing and twining stems; other modifications of stems; pruning.

Leaves: structure; photosynthesis; transpiration; adjustments to light; daily movements; modifications.

Respiration: experiments as in Eikenberry.

Buds: especially winter buds.

Propagation by vegetative or asexual means, both natural and artificial: tubers; bulbs; stolons; runners; grafting; layering; budding.

Flowers: structure and arrangement of organs in the principal types; the functions of the different parts; self-pollination and cross-pollination; fertilization.

Fruits: structure of the principal types; modifications which assist in dispersal.

Plant Societies and special adaptations to environment:

Forests: forestry; timbers.

PART B.

A study of the principal groups of plants, emphasizing the evolution of complex from simple forms, the division of labor and the evolution of organs, the origin and evolution of sex and certain economic relations.

Bacteria: form, size, structure, motility, reproduction; relation to soil fertility; the root-nodules of the pea family and rotation of crops; relation to decay; relation to dairy products, sterilization and canning; relation to disease.

Fresh water algæ:

1. Pleurococcus, a unicellular green plant found growing on tree trunks, undifferentiated, without sexual reproduction, increasing by fission only.
2. Spirogyra, a filamentous green plant with a very simple type of sexual reproduction by means of similar germ-cells.
3. Oedogonium, a filamentous green plant with a higher type of sexual reproduction, by means of differentiated ova and sperms.

Higher fungi:—A black bread mold (Rhizopus); a downy mildew; the yeast plant and alcoholic fermentation; a blue mold; the corn-smut; wheat-rust; a mushroom; a wood-destroying fungus. In connection with the fungi, consideration is to be given to parasitism and saprophytism, the relations of dependent plants and their hosts; and common plant diseases and their prevention.

Lichens: one common lichen such as Parmelia, Umbilicaria Cladonia, Symbiosis.

Liverworts: structure; life-history and alternation of generations; the origin of epidermis and stomata; the progressive development of the sporophyte, using Riccia, Marchantia and Anthoceros.

Mosses: life-history and structure of a common moss, such as Polytrichum; peat-bogs and peat.

The Ferns and their Allies (Pteridophytes): structure and life-histories of a fern, an equisetum, a lycopod and a selaginella; the origin of roots and the development of a fibro-vascular system; alternation of generations and the increasing importance of the sporophyte; Pteridophytes of past ages; coal.

Seed-plants:—

1. Gymnosperms:—structure and life-history of a pine; the origin of the seed-habit; pulp; timber; gymnosperms of past ages.
2. Angiosperms:—the structure and life-history of at least one monocotyledon, for example, the trillium, and of one dicotyledon, such as the bean.
3. A brief study of leading agricultural and horticultural plants.

Regional distribution.

Plant-breeding: A brief consideration of the underlying principles and methods.

Text-books:—"Practical Botany," by Bergen and Caldwell, to be used with "Problems in Botany," by W. E. Eikenberry, a laboratory manual for the guidance of teachers. Any other modern text-book covering similar ground may, however, be used.

One examination paper.

SENIOR MATRICULATION

(1) For admission to Second Year Arts (B.A. Course).

SUBJECTS OF EXAMINATION.

English.
Latin *or* **Greek.**
Mathematics *or* **a third foreign language.**

Any three of the following:—

1. **History.**
2. **Latin** *or* **Greek** (the one not already taken).
3. **French.**
4. **German.**
5. **Science (Physics** *or* **Chemistry** *or* **Biology).**

Candidates cannot substitute a third foreign language for Mathematics unless they have passed in the Mathematics prescribed for Junior Matriculation.

(2) *For admission to Second Year Arts (B.Sc. Course).*

1. **Chemistry.**
2. **English.**
3. **French.**
4. **German.**
5. **Mathematics.**
6. **Physics.**

This examination may be taken in two parts, but a candidate must complete the requirements within two years from the date of the first attempt.

REQUIREMENTS IN EACH SUBJECT.

(For the Years 1926 and 1927.)

Biology.

Text-books:—Conn, H. W., (Silver, Burdett & Co.), Chaps. 1 to 10, inclusive, and Spirogyra, Mucor, and a fern.

In addition, a certificate will be required, signed by the Headmaster of the school attended, to the effect that the candidate had regularly carried out the necessary laboratory work on the course indicated.

Chemistry.

Text-books:—Alex. Smith, Geeneral Chemistry (new edition) or Smith's Intermediate Chemistry, as for Second Year Arts.

English.

Composition.—The examination will be designed mainly to test the candidate's ability to write English. He will be expected to have acquired a fairly clear and accurate style, to be able to arrange material in an effective fashion, and to show discrimination in the choice of words. In preparation for the examination, it is suggested that students be required to write mainly on simple, expository subjects that are within the range of their actual experience.

Carpenter's Rhetoric and English Composition (Macmillan) is recommended as a suitable text-book.

Literature.—The examination will be based on the following texts:—Chaucer's Prologue to the Canterbury Tales; Spenser's Faerie Queene,

Book 1, Cantos 1 and 2; Shakespeare's Macbeth and As You Like It; Milton's Minor Poems (L'Allegro, Il Penseroso, Lycidas and Comus); and Bunyan's Pilgrim's Progress, Part I.

Candidates will also be expected to read Long's English Literature (Ginn & Co.), Chapters I-VII, inclusive, with special emphasis on the portions most closely connected with the foregoing list of books.

French.

(1) For the B.A. Course.

Bouvet, French Syntax and Composition (Heath); Lavisse, Histoire de France, Cours moyen; Maupassant, Huit Contes choisis (Heath); Bruce, Récits et Contes de la Guerre de 1870 (Holt); Erckman-Chatrian, Le Conscrit de 1813 (Heath); De Vigny, Le Cachet Rouge (Heath); Hugo, Gavroche (Oxford).

(2) For the B.Sc. Course.

The requirements for Junior Matriculation as on page 65, and in addition, Bowen's First Scientific French Reader (Heath) and Jules Verne, Vingt Mille Lieues sous les Mers (Heath).

German.

(1) For the B.A. Course.

Van der Smissen und Fraser, High School German Grammar (Copp, Clark Co.); Heyse, Die Blinden (Holt); Hauff, Die Karavane (Macmillan or Holt); Storm, In St. Jurgen (Holt).

(2) For the B.Sc. Course.

The requirements for Junior Matriculation (page 66), or the course in Beginners' German (see page 160).

Greek.

Homer, Iliad XXII (Pitt Press Series, Camb. Univ. Press); Lysias, pp. 30-92, in Shuckburgh's Lysias, Orationes (Macmillan).

N.B.—Although the above editions are suggested others may be used.

The examination will include a paper on grammar, composition, and sight translation.

One of the following books is recommended for grammar:—First Greek Grammar, Rutherford (Macmillan); Goodwin's Greek Grammar (Ginn & Co.).

History.

Either (1) Greek and Roman History from 500 B.C. to 476 A.D.

Text-books recommended:—Bury, History of Greece (Macmillan); Pelham, Outlines of Roman History (Rivington); Stuart Jones, The Roman Empire (F. Unwin); Herodotus VII and VIII (Everyman); Plutarch, Lives of Pericles, Fabius Cunctator, Caius Gracchus, Marius, Cæsar; Gibbon, chap. I. (Everyman.)

Or (2) English History from the Conquest to 1900.

Text-Books recommended:—Green's Short History; Keating and Frazer, History of England for Schools, with Documents, &c. (Black); G. B. Adams, Introduction to Constitutional History of England; Seeley, Expansion of England.

Latin.

Virgil, Aeneid III (Sidgwick, Camb. Univ. Press, edition with vocabulary); and Cicero, In Catilinam I, III, IV.

The examination will include a paper on grammar, composition, and sight translation.

The grammar recommended is New Latin Grammar by Sonnenschein (Oxford Clarendon Press.)

Mathematics.

Plane and Solid Geometry.—Hall and Stevens' School Geometry to Theorem 98, inclusive.

Algebra.—Hall and Knight's Elementary Algebra (omitting chapters 40-42, inclusive), or the same subject matter in similar text-books.

Trigonometry.—Hall and Knight's Elementary Trigonometry to page 210 and chapter 19; nature and use of logarithms (Bottomley's four-figure tables.)

Physics.

A general knowledge of the more important principles of elementary physics will be required.

Text-book:—Kimball, College Physics (Henry Holt & Co., New York, 1912.)

The student's notebook, setting forth his own laboratory work, certified by the Instructor and Headmaster of the School, must be forwarded to the Registrar for the examiner's valuation. Unless this is done, an examination on practical physics will have to be taken.

SENIOR MATRICULATION EXAMINATION FEES.

For an examination in seven or more papers	$15.00
(For an examination at a local centre where not more than four candidates are writing, the fee will be determined by the Registrar.)	
For an examination in from three to six papers	9.00
For an examination in one or two papers	4.00

ADMISSION TO LAW, MEDICINE, DENTISTRY AND APPLIED SCIENCE

FACULTY OF LAW.—Two years in Arts (B.A. Course).

FACULTY OF MEDICINE.—Two pre-medical years, taken in the Faculty of Arts, with Junior Matriculation Physics compulsory. These pre-medical years must include two years of Chemistry (covering both Inorganic and Organic), two of English, one of Physics, and one of Biology. The other subjects shall be chosen from those offered in the first two years of the Faculty of Arts.

Those who intend to practise medicine in any of the Provinces of Canada will obtain information regarding registration and admission to study by corresponding with the Registrars of the several Provincial Medical Councils. (For names, see page 297.)

FACULTY OF DENTISTRY.—(a) For those who intend to practise in the Province of Quebec two years in Arts in a recognized English university in the Province. (b) For all others, the completion of two full years in the Faculty of Arts of a recognized university, including courses in Chemistry (Organic and Inorganic), Biology and Physics.

FACULTY OF APPLIED SCIENCE.—Commencing with the Session 1927-28 the standard of entrance to this Faculty will be Senior Matriculation in English, Mathematics, Physics, and any three of the following:—History, Biology, Chemistry, French, German, Greek, Latin, Spanish.

ADMISSION TO ADVANCED STANDING

A student of another university applying for exemption from any subject or subjects which he has already studied is required to submit with his application a Calendar of the University in which he had previously studied, together with a complete statement of the course he has followed and a certificate of the standing gained therein.

PHYSICAL EXAMINATION, VACCINATION AND HEALTH

In order to promote as far as possible the physical welfare of the student body, every student, coming to the University for the first time, will be required to pass a physical examination to be conducted by, or under the direction of, the Director of the Department of Physical Education, or by a recognized representative. Students of the Second Year, as well as those of all years who wish to engage in athletic activities, are also required to be physically examined. The hours for this examination will be announced at registration.

By such examination physical defects and weaknesses may be discovered. If such defects and weaknesses are amenable to treatment by corrective gymnastics, special exercise will be prescribed and instruction provided. The students will be advised as to what forms of exercise will be likely to prove beneficial or harmful.

Students who do not present themselves for this examination (or otherwise satisfy the Director) before November 1st, will not be allowed to attend the University.

Re-examinations will be held frequently throughout the session for those students who are of low category, or who are suffering from physical disabilities.

All students entering the University for the first time are required to present a certificate, or other satisfactory evidence, of successful vaccination, failing which, they shall at once be vaccinated in a manner satisfactory to the medical examiner.

Provision is made by the Department for the care of the health of undergraduate students during the session. Hospital accommodation is provided for seven days only, except under special circumstances. A leaflet concerning this service and the general work of the Department, together with the requirements in physical education for all students, will be distributed at the opening of the session.

AGE OF ADMISSION

Except under special circumstances, no student under the age of sixteen is admitted to the First Year courses in Arts, Applied Science or Medicine, or under the age of seventeen to the Second Year, and no student under the age of eighteen is admitted to the course in Law.

REGISTRATION AND ATTENDANCE.

1. REGISTRATION.

Students will register for the Session 1925-26 as follows:—

Students in Law.	Registrar's Office, Sept. 8th-12th.
Students in Medicine, Dentistry and Pharmacy.	" " " 14th-19th.
Students in Applied Science, First Year.	Registrar's Office, Sept. 21st-28th.
Students in Arts, First Year	" " " 28th and 29th.
Students in Arts, other Years	Molson Hall, Sept. 28th and 29th.
Students in Applied Science, Upper Years.	Engineering Building, Sept. 28th and 29th.
All other Students.	Registrar's Office, Sept. 21st-29th.

The complete regulations regarding registration are as under:—

1. Candidates entering on any course of study in the University, whether as undergraduates, conditioned undergraduates, partial students or graduate students, are required to attend at the office of the Registrar some time during the seven weeks days preceding the commencement of lectures, in order to furnish the information necessary for the University records, and to register for the particular classes which they wish to attend.

In the case of the Faculty of Arts, however, the registration of First Year undergraduates and conditioned undergraduates will be restricted to the two days appointed for the registration of students who had been in attendance before, as specified in Section 2.

2. On two special days during the week before the opening of the session, students who had been previously enrolled in Arts or Applied Science shall register for particular subjects in such place, or places, as may be designated by the Registrar, it being understood, however,

that students in Applied Science who have completed the work of the lower year, or years, will be free to register in the Registrar's office during the three preceding days.

In the case of students previously enrolled in the Faculties of Law, Medicine, Dentistry or Music, registration will be carried out in the Registrar's office during the seven week days, preceding the comemnce-ment of lectures in the Faculty concerned.

3. Students of all years above the First will be allowed to register after the official registration days only on payment of a fee of $5.00 during the first week of the session, and of $10.00 during the second. After the fifteenth day of the session no student will be admitted, except by special permission of the Faculty concerned.

This fee will not be refunded, except for satisfactory reasons and by authorization of the Faculty concerned.

4. No student will be allowed to register for a course from which he is barred by the matriculation regulations or the rules of the Faculty, except with the permission of the Matriculation Board or the Registration Committee of that Faculty, or (in the absence of such a committee) the Dean, or his authorized representative, as the case may be.

5. Upon registering, each student will be given cards of admission to the courses registered for, on presentation of which to the several instructors, his name will be entered on the class registers, or notification will be sent to the instructors by the Registrar, as may be found most convenient.

6. Students desiring to make changes in their choice of studies must make application to the Registrar to do so on a regular form. If this is in accordance with the regulations the change, or changes, will be made, otherwise the applicant must receive the endorsation of the Registration Committee or the Dean, as the case may be, whereupon due notice will be sent to all parties concerned.

2. ATTENDANCE

1. Students are required to attend at least seven-eighths of the total number of lectures in any one course.* Those whose unexcused absences exceed one-eighth of the total number of lectures in a course shall not be permitted to come up for the regular examination in that course, and those whose unexcused absences have exceeded one-fourth of the total number of lectures in any course must repeat the work in that course.

Excuses on the ground of illness or domestic affliction shall be dealt with only by the Deans of the respective Faculties.

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*Physical education is included under this regulation.

It is to be clearly understood that excuses for absences in excess of one-eighth will be entertained only in cases of serious illness (which must be vouched for by a proper medical certificate), domestic affliction, and such other cases as are provided for by special regulations of the Faculty. Medical certificates covering absences must be presented at the Dean's office by the student immediately after his return to University work. Such certificates will be filed, and, if acceptable, the Dean shall give the student a statement certifying to the absences covered, and this must be shown to all the professors concerned as promptly as possible.

2. A record shall be kept by each professor or lecturer, in which the presence or absence of students shall be carefully noted. This record shall be submitted to the Faculty when required.

3. Credit for attendance on any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. In the case last mentioned the student may, at the discretion of the Professor, be required to leave the room. Persistence in any of the above offences against discipline shall, after admonition by the Professor, be reported to the Dean of the Faculty concerned. The Dean may, at his discretion, reprimand the student, or refer the matter to the Faculty at its next meeting, and may in the interval suspend from classes.

4. Lecures will commence at five minutes after the hour, on the conclusion of the roll call. After the commencement of a lecture students are not allowed to enter, except with the permission of the Professor. If permitted to enter, they will, on reporting themselves at the close of the lecture, be marked "late." Two lates will count as one absence. Lectures end at five minutes before the hour.

In cases where it is impracticable to record late attendance, students who are not present at the commencement of these lectures will be marked absent.

SCHOLARSHIPS, MEDALS AND PRIZES

ENTRANCE SCHOLARSHIPS

The P. S. Ross Exhibition

This exhibition of the value of $100.00, was founded by Mr. P. D. Ross, B.A.Sc., in memory of his late father, Mr. P. S. Ross, and is given through the Ottawa Valley Graduates' Society. It is awarded annually to the candidate from the Ottawa Valley for entrance to any Faculty, who obtains the highest percentage at the June matriculation examination, and attends the University during the ensuing session. Candidates must apply before July 1st.

The Ottawa Valley Graduates' Society's Exhibition

This exhibition, of the value of $50, will be awarded annually to the candidate from the Ottawa Valley for entrance to any Faculty who obtains the second highest percentage at the June matriculation examination and attends the University during the ensuing session. Applications must be made before July 1st.

The Sidney J. Hodgson Exhibitions

These exhibitions were founded by Arthur J. Hodgson, Esq., in memory of his late son, Sidney James Hodgson, a student of the First Year in Arts, who was killed in action on September 27th, 1918, while serving in the 66th Battery of the Canadian Field Artillery. One of these exhibitions is of the value of $125, tenable in the Faculty of Arts, and another of the value of $300, tenable in the Faculty of Applied Science. They are open to pupils of the Westmount High School who have been in attendance for at least one year, and will be awarded on the result of the June matriculation examination to the two pupils who obtain the highest percentage on the subjects required for entrance to the Faculty of Arts or Applied Science, as the case may be, and who attend the University during the ensuing session, provided, however, that they have not been awarded another exhibition of higher value.

Bursaries Granted by the Imperial Order of the Daughters of the Empire

These bursaries are of the annual value of $250.00, are tenable for four years at any university and are open to the sons and daughters of deceased and permanently disabled soldiers and sailors. One is available for each Province each year.

Full information can be obtained by writing to the Head Office of the Order for Canada, 238 Bloor Street East, Toronto, Ont.

Scholarship Granted by the Graduates' Society of the District of Bedford

This scholarship, of the value of $120, will be awarded annually to a "matriculated student in Arts whose parents reside in the District of Bedford, and whose candidature has been approved by a committee of the Society."

Narcissa Farrand (Mrs. N. Pettes) Scholarship

This scholarship, of the value of $300 ($150 for two years), founded by Mr. and Mrs. H. V. Truell, of Sweet Acre, Knowlton, Que., and endowed by them with the sum of $7,000 out of the Narcissa Farrand Fund, will be awarded annually to the candidate from the Eastern Townships who obtains the highest marks at the Arts matriculation examination in June, and who has had his domicile in the Eastern Townships for five consecutive years immediately preceding the examination. Intending competitors must apply to the Registrar before July 1st each year.

The Trafalgar Scholarship

This scholarship was founded in 1913 by certain friends and former pupils of Miss Grace Fairley, to signalize her long and faithful service to education in Montreal, and particularly as head of the Trafalgar Institute. It is of the value of $135, is tenable for one year only, and will be awarded annually to the student of Trafalgar Institute who obtains the highest marks in the June Matriculation examination and matriculates as an undergraduate in the Faculty of Arts.

Scholarship for Holders of Intermediate Diplomas

A scholarship of $150 is offered annually in the Faculty of Arts to holders of Intermediate diplomas obtained after a course of study in Macdonald College, under the following conditions:—

(1) Candidates must apply through the Dean of the School for Teachers before May 1st.

(2) They must satisfy the entrance requirements of the Faculty of Arts and declare their intention to proceed to a First Class High School diploma following the course prescribed by the University.

The scholarship will be awarded on the academic subjects of the examination for the Intermediate diploma; but although the practice marks will not be taken into account directly, the opinion of the Macdonald College staff as to the general fitness of the applicant for a

University course will be considered. In case there is no applicant from the graduating class in any year, applications from graduates of previous years will be considered on their merits.

Holders of this scholarship will be permitted to count practice teaching and post-graduate work towards the fulfilment of their agreement to teach for a period of three years in the Province of Quebec.

The Sir William Macdonald Entrance Scholarships in Arts

The following scholarships, endowed by the late Sir William Macdonald, tenable in the Faculty of Arts, and open to men only, will be offered for competition in June each year:—

Five scholarships, of the value of $150.00 each (three open only to candidates not residing on the Island of Montreal), will be awarded on the result of the matriculation examination in June.

Application must be made before July 1st.

University Entrance Scholarships in Arts

Three scholarships of the value of $100 each and two of the value of $75 each (one of each value open only to candidates not residing on Montreal Island) will be offered to candidates for entrance to the Faculty of Arts, and will be awarded on the result of the matriculation examination in June.

Application must be made before July 1st.

Royal Victoria College Entrance Scholarships

Two scholarships, open to women only and conditional on residence in the Royal Victoria College, are offered each year, one of the value of $200 and one of $100. These will be awarded on the result of the matriculation examination. Application must be made to the Registrar before July 1st.

The Hon. Robert Jones Scholarship

The Hon. Robert Jones Scholarship, having a value of One Hundred and Twenty-five Dollars ($125.00) per annum, "is granted from time to time to some poor student for the full term of study in the Faculty of Arts or of Applied Science."

Application for this scholarship should be made through the Dean of the Faculty of Arts. In awarding the scholarship the standing of the student in the matriculation examination will be considered, and the scholarship will not be continued if the standing of the student at any time during his course proves to be unsatisfactory.

The Robert Bruce Bursaries and Scholarships

Under the will of the late Robert Bruce, of the City of Quebec, provision has been made for the establishment of Bursaries and Scholarships in McGill University.

The Bursaries are of $100 in value, and will be open to "young men and women of promising abilities but of straitened circumstances who have qualified for entrance and are taking a course of study in Arts or Science."

Two sets of Scholarships have also been established; one open to candidates for entrance to the University, of the value of $100, tenable for one year, and to be awarded for high standing at the Matriculation Examination; and the other for high standing in the examinations at the end of the First Year. The latter will be of the value of $100 a year for three years, or as much of that time as is necessary for the student to complete his course.

For the first twenty-five years students of Scottish extraction will be given the preference.

The Isabella C. MacRae Scholarship

By the bequest of $3,021.17 from the late Isabella C. MacRae, a Scholarship has been founded, open to residents of Maxville, Ont. who have satisfied the requirements for entrance to McGill University. Should there be no applicants from this locality for six years, the Scholarship will be open to any resident of Ontario.

For information regarding scholarships available during the undergraduate course, and after graduation, see the Announcements of the several Faculties.

Canadian Pacific Railway Scholarships

Scholarships covering four years' tuition in the Faculty of Applied Science are awarded annually by the Canadian Pacific Railway Company. These are open for competition to apprentices and other employees of the Company under twenty-one years of age, as well as to minor sons of employees, and the award is made on the result of the Junior Matriculation Examination in June. For full particulars as to number of scholarships available, etc., application should be made to C. H. Buell, Esq., Staff Registrar and Secretary, Pension Department, C. P. R. Offices, Montreal.

SCHOLARSHIPS IN ARTS

GENERAL REGULATIONS

1. No student can be awarded more than one scholarship in Group C or D.

2. Scholarships will not necessarily be awarded to the candidates who have obtained the highest marks. An adequate standard of merit will be required.

3. If in any College Year there be not a sufficient number of candidates showing adequate merit, any one or more of the scholarships offered for competition may be given to more deserving candidates in another year.

4. A successful candidate must, in order to retain his scholarship, proceed regularly with his college course to the satisfaction of the Faculty.

5. The annual income of the scholarships will be paid in four instalments, viz.:—In October, December, February and April, about the 20th of each month.

GROUP A.—ENTRANCE SCHOLARSHIPS

For scholarships awarded on the result of the Matriculation Examination, see pages 80 to 83.

GROUP B.—SCHOLARSHIPS IN ARTS AWARDED ON THE RESULT OF THE SESSIONAL EXAMINATIONS

THE JANE REDPATH SCHOLARSHIP.—Founded by the late Mrs. Redpath, of Terrace Bank, Montreal, for the maintenance of a scholarship in Arts. It will be awarded on the result of the sessional examination of the First Year to the student who makes the highest average on the year's work. Value of scholarship, $115.00.

THE BARBARA SCOTT SCHOLARSHIP.—Founded by the will of the late Barbara Scott to form an annual scholarship for the student "excelling in Classics in the First Year." Value, $115.00.

THE JAMES DARLING MCCALL SCHOLARSHIP.—This scholarship was founded by J. T. McCall, Esq., in memory of his son, James D. McCall, B.Sc., who was drowned shortly after the close of the war, in which he had served with distinction. This scholarship will be awarded each year to a male student of the Third Year Arts who has

"given proof of scholarship and ability as an honour student in the subject of English and Philosophy." It is of the value of $275.00.

THE CHARLES WILLIAM SNYDER MEMORIAL SCHOLARSHIP.—This scholarship has been founded by L. P. Snyder, Esq., in memory of his son, Charles William Snyder, a student of the First Year Arts, who was killed in the Battle of Sanctuary Wood on June 2nd, 1916. It is of the value of $250.00 and will be awarded annually on the result of the examination in English and Economics of the Second Year, and is subject to the conditions that the holder take an honour course in English, with Economics as a minor subject in his Third Year, or the Honour Course in English and Economics, should such be established. It is open to male students in the Faculty of Arts professing the Christian religion.

MACKENZIE SCHOLARSHIPS.—Four scholarships, known as the Mackenzie Scholarships, are awarded annually in the Department of Economics and Political Science. Two of these, of the value respectively of $100 and $50, tenable for one year, are awarded on the results of the Second Year examination on Political Economy (Economics, Course 1), but no student is eligible who has not completed the work of this Year. The tenure of the scholarships is conditional upon the holders pursuing their studies in the honour work in Economics and Political Science of the Third Year. The other two scholarships, of the value respectively of $100 and $50, are awarded on the result of the honour examination of the Third Year in Economics and Political Science. The scholarships will not be awarded except on satisfactory evidence of merit; their tenure is conditional upon the holders pursuing their studies in the honour work in Economics and Political Science of the Fourth Year.

A Fourth Year Mackenzie scholarship may be held by a student who holds another; a Third Year scholarship cannot.

THE SIR WILLIAM DAWSON SCHOLARSHIP.—Given by the New York Graduates' Society; value, $60.00.

THE DR. BARCLAY SCHOLARSHIP.—Awarded in the Classical Department; value, $50.00.

THE HOUSTON SCHOLARSHIP.—Founded by the will of the late Thomas Houston, for the purpose of establishing a scholarship for French students studying for the Presbyterian ministry. It is open only to undergraduates in the Faculty of Arts under the above restriction and will be awarded on the result of the sessional examination without regard to Year. The value of the scholarship is about $60.00.

PRESBYTERIAN COLLEGE SCHOLARSHIPS.—The Board of Management of the Presbyterian College offers a number of scholarships for the payment of fees of undergraduates in Arts who are registered at the Presbyterian College as in training for the study of theology with a view to the ministry and who have creditably passed the sessional examinations. For further particulars, application should be made to the Registrar, the Presbyterian College, Montreal.

CONGREGATIONAL COLLEGE SCHOLARSHIPS.—The Board of Governors of the Congregational College provides maintenance scholarships for its students taking the Arts course in McGill, also fee scholarships for creditable standing in the sessional examination, as well as special prizes as rewards for superior excellence. For particulars, application should be made to the Registrar, The Congregational College, Montreal.

GROUP C.—SECOND YEAR SCHOLARSHIPS IN ARTS, AWARDED ON THE RESULT OF A SPECIAL EXAMINATION IN SEPTEMBER.

Six scholarships, ranging in value from $100 to $150 each, will be offered for competition to students entering the Second Year, in September, 1925.

The subjects of examination are divided into two groups, as follows:—

Group I.—Greek, Latin, French, German, English, History.

Group II.—Mathematics, Physics.

Candidates are required to offer two major subjects and one minor subject. The two major subjects must be selected from the same group, the minor subject from either group, the examination in the major subject being more extensive than that in the same subject presented as a minor subject. Two scholarships of $150 each and two of $100 each are offered to candidates taking their major subjects from Group I, and one of $150 and one of $100 to candidates taking their major subjects from Group II.

One of these scholarships is "The Charles Alexander Scholarship," for men only, and is awarded for "classics and other subjects."

The above scholarships are open to all undergraduates in Arts, whether they are taking the B.A. or the B.Sc. course.

Notice of intention to take the examination for these scholarships must be sent to the Registrar before July 1st.

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†Second Year scholarships are open to students who have passed the First Year sessional examinations, provided that not more than two sessions have elapsed since their admission to the University.

REQUIREMENTS IN EACH SUBJECT.

Greek.

(*As a Major Subject*)

I. (a) Homer, Odyssey I.
(b) Euripides, Hecuba.
II. Composition and translation at sight.
III. History:—Edmonds, Greek History for Schools (Camb. Univ. Press), to the end of the war with Persia.

(*As a Minor Subject*)

The same as above, omitting I (b) and III.

Latin.

(*As a Major Subject*)

I. (a) Brown, Latin Literature of the Early Empire, pp. 9-59 (omitting pages 31 to 41).
(b) Ovid, Metamorphoses XI.
II. Composition and translation at sight.
III. Roman History:—How and Leigh, from the foundation of Rome to the end of the Second Punic War.

(*As a Minor Subject*)

The same as above, omitting I (b) and III.

French.

(*As a Major Subject*)

(a) Grammar; (b) translation at sight of an English passage into French; (c) French essay on a prescribed subject; (d) translation of passages taken from the prescribed texts; (e) a critical study of the following texts, tested by questions in the French language to be answered in French:—

Corneille, Cinna (Holt); Molière, Le Malade Imaginaire (Macmillan); Thiers, Expédition de Bonaparte en Egypte (Holt); Loti, Pêcheurs d'Islande (Rivington).

(*As a Minor Subject*)

The same as above, omitting Molière and Thiers.

German.

(As a Major Subject)

(a) Grammar; (b) translation at sight from German into English, and from English into German; (c) a critical study and translation of the following texts:—

Schiller, Maria Stuart (Heath & Co.); Fulda, Talisman (Heath); Hauff, Lichtenstein (Heath).

(As a Minor Subject)

The same as above, omitting Schiller.

English.

(As a Major Subject)

Shakspere, Twelfth Night (ed. Macmillan); Macaulay, History of England, Vol. I. Chap. 3 (England in 1685); Scott, Marmion; Thackeray, Pendennis; George Eliot, The Mill on the Floss; Tennyson, The Coming of Arthur, The Last Tournament.

(As a Minor Subject)

The Scott and Tennyson prescribed above.

History.

(As a Major Subject)

Herodotus (Everyman Series); Plutarch's Lives of Tiberius and Caius Gracchus, Cicero and Brutus (Everyman Series, Vol. III); Gibbon, Vol. I (Everyman Series).

(As a Minor Subject)

Gibbon, Vol. I. (Everyman Series).

Mathematics.

(As a Major Subject)

Plane Geometry.—Godfrey and Siddon's Modern Geometry, omitting appendices.

Algebra.—Hall and Knight's Higher Algebra; also Fine's College Algebra (Ginn & Co.), pages 424 to 511.

Plane Trigonometry.—Carslaw's Plane Trigonometry (Macmillan & Co.), except Chap. 13.

(As a Minor Subject)

The mathematics of the First Year general course.

Physics.

(As a Major Subject)

Duncan and Starling's "Heat, Light and Sound" (Macmillan); and Bragg's "The World of Sound" (Bell).

(As a Minor Subject)

Kimball's "College Physics" (Henry Holt & Co.).

GROUP D.—THIRD YEAR SCHOLARSHIPS IN ARTS, AWARDED ON THE RESULT OF A SPECIAL EXAMINATION IN SEPTEMBER*

The following five scholarships, of the value of $300 ($150 per year for two years) will be open for competition to students entering the Third Year in September, 1925.

One for English and History and another language.

One for Latin or Greek and another language† (English excepted).

One for French or German and another language† (English excepted).

Two for Mathematics and Physics.

Of the above five scholarships two are known as "Sir William Macdonald Scholarships" and are open to men only.

In addition to the above, the three following scholarships, of the value of $150.00 each, are also offered for competition to students entering the Third Year:—

One for Philosophy and Psychology.

One for Chemistry.

(Of the above two scholarships, one is called a "Sir William Macdonald Scholarship" and is open to men only).

One for Biology.

(This scholarship shall be called "The Major Hiram Mills Scholarship." It is open to both men and women).

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*Third Year scholarships are open to students who have passed the Second Year sessional examination, provided that not more than three sessions have elapsed since their admission to the University; and also to candidates who have obtained what the Faculty may deem equivalent standing in some other university, provided that application be made before the end of the session preceding the examination. Double course students (Arts and Applied Science or Arts and Medicine) are not eligible for these scholarships.

† The language not chosen in the first instance may be taken as the second language.

A bursary of $25 will be awarded to that one of the holders of these three scholarships who is considered most deserving on entering the Fourth Year.

An exhibition of $80, to be known as the Hannah Willard Lyman Exhibition, will also be awarded annually in the Fourth Year, to the best woman student who may have been the holder of a Third Year scholarship in biology or chemistry or philosophy. Should there be no sufficiently deserving candidate, this exhibition may be awarded at the beginning of the Third Year to a woman candidate who may fail to obtain one of the five regular scholarships offered to Third Year students.

In the award of Third Year scholarships, the Second Year standing of candidates, in the subjects selected, will be taken into account.

In the event of no candidate of sufficient merit presenting himself, the scholarship assigned to any group of subjects may, at the discretion of the Faculty, be awarded in another group, whether a scholarship has been already assigned to that group or not.

Notice of intention to take the examination for these scholarships must be sent to the Registrar before July 1st.

REQUIREMENTS IN EACH SUBJECT.

Greek.

Prose composition; translation at sight.

Study of the following texts:—Euripides, Hippolytus; Homer, Odyssey II and III.

History:—Edmonds, Greek History for Schools (Camb. Univ. Press), from the end of the war with Persia to the death of Alexander.

Latin.

Prose composition; translation at sight.

Study of the following texts:—Brown, Latin Literature of the Early Empire, pp 9 to 59 (omitting pages 31 to 41), Virgil, Aeneid VI; Horace, Epistles Book II. and Ars Poetica.

Roman History:—How and Leigh, from the end of the Second Punic War to the death of Cæsar.

English and History.

Literature.—Shakespere, Hamlet (ed. Deighton, Macmillan); Milton, Paradise Lost, Books I and II, ed. Macmillan (Macmillan); Ruskin, Sesame and Lilies, Crown of Wild Olive; Arnold, Essays in Criticism, Second Series (Macmillan's Colonial Library).

Composition.—The candidate will be required to write an essay on some subject connected with the literature or history prescribed. High marks will be given for this subject.

History.—Either (1) Dicey, Law of the Constitution and Bagehot, The English Constitution; *or*

(2) W. P. M. Kennedy, The Constitution of Canada (Oxford University Press, 1922).

French.

(a) Translation at sight from French into English, and from English into French; (b) translation of passages from the prescribed texts; (c) questions on the subject matter of the following texts, and the lives of their authors:—Molière, Le Médécin Malgré Lui (Heath); Racine, Phèdre (Heath); Rostand, Cyrano de Bergerac (Holt); Taine, L'Ancien Régime (Heath); Hugo, Notre Dame de Paris (Ginn).

The entire examination will be held in the French language.

German.

(a) Translation at sight from German into English, and from English into German; (b) critical study and translation of the following texts:—Goethe, Dichtung and Wahrheit, Books I, II, III (Heath); Schiller, Das Lied von der Glocke (Holt), and Wallenstein's Lager (Holt); Eichendorff, Aus dem Leben eines Taugenichts (Holt); Heine, Prose Selections (Macmillan).

Mathematics and Physics.

Calculus.—Fundamental principles relating to functions, limits and continuity; differentiation and integration of ordinary functions; geometrical applications; maxima and minima; curvature; areas; volumes; lengths of curves; mean values; approximate integration; Taylor's and MacLaurin's Series.

Books for reference:—Murray's Differential and Integral Calculus (or similar text books) and, most especially, Lamb's Infinitesimal Calculus, Chaps. I-VIII. inclusive, and Arts. 133-135, 183, 184.

Analytic Geometry.—Plotting of curves and finding their slopes, and the analytical treatment of the conic sections.

Books for reference:—Tanner and Allen's Analytic Geometry (or similar text books) and most especially, C. Smith's Conic Sections, Chaps. I-IX. inclusive (omitting articles 52, 54-64), and Arts. 187, 188, 222-229 inclusive.

Higher Trigonometry.—Carslaw's Plane Trigonometry.

Physics.—Maxwell's "Matter and Motion," excluding appendix (S.P.C.K.) and Maxwell's Theory of Heat (Longmans).

In addition to the above scholarships, three of the value of $40 each will be offered as follows:—

One for Philosophy and Phychology.

One for Chemistry.

One for Biology.

Philosophy and Psychology.

Sellar's Essentials of Logic, omitting Chaps. 20 to 22, inclusive; Mellone, Text-book of Logic (10th edition), chaps. 8 and 9, inclusive; Warren, Elements of Human Psychology; Berkeley's "Three Dialogues between Hylas and Philonous" (Open Court Philosophical Classics).

Chemistry.

Chemistry.—Modern Inorganic Chemistry (J. W. Mellor, 1912 edit.)

Subject of Essay.—"Aqueous Solution."

Biology.

Animal Biology.—Woodruff, Foundations of Biology (Macmillan, New York, 1923).

Plant Biology.—Candidates for this scholarship will be expected to pursue an independent study of classification of plants during the summer months. An original collection of 75 species must be made and properly identified, and must form a basis of an understanding of the general interrelations of the larger groupings. A few lectures will be given during the latter part of the session for the benefit of those who wish to undertake this work. These will deal with the rationale of taxonomy and methods of collection and study. Advice as to the proper literature will also be given at this time.

MEDALS IN ARTS

Gold Medals will be available in the final Honours examination to the students who take the highest honours of the first rank in the subjects stated below, and who shall have passed creditably the ordinary examination for the degree of B.A. or B.Sc., provided they have been recommended therefor to the Corporation by the Faculty, on the report of the examiners:—

The Henry Chapman Gold Medal, for Classical Languages and Literature.

The Prince of Wales Gold Medal, for Mental and Moral Philosophy.

The Anne Molson Gold Medal, for Mathematics and Natural Philosophy.

The Shakespeare Gold Medal, for English Language and Literature.

The Logan Gold Medal, for Geology, Mineralogy and Palæontology.

The Major Hiram Mills Gold Medal, for Biology.

The Governor-General's Gold Medal, for Modern Languages and Literature.

The Allen Oliver Gold Medal, for Economics and Political Science (founded by Mrs. Frank Oliver, in memory of her late son, Allen Oliver, B.A., M.C., Lieutenant 26th Battery, C.F.A., who was killed in action at the Somme, on November 18th, 1916).

In addition to the above, certain medals are offered annually by the Alliance Française, at the discretion of the Department of Romance Languages.

If there be no candidate for any medal, or if none of the candidates fulfill the required conditions, the medal will be withheld, and the proceeds of its endowment for the year may be devoted to prizes in the subject for which it was intended.

"The Byron Medal."—This Medal is given by the Greek Colony of Montreal in commemoration of the Centenary of Byron's death, April 19, 1924. It will be awarded for an Essay on a subject connected with Byron, or with Greece, or with Byron and Greece. The subject of the Essay may vary from year to year. Theses that form part of the regular work in 19th Century poetry, or History—if on a subject connected with Byron or with Greece—may be offered in competition. Essays shall not exceed ten thousand words in length. The literary quality as well as the substance of the essays will be taken into account in making the award.

For the year 1925-26, the following subjects are proposed:—(1) Byron and Greek politics; (2) Byron's influence in Europe; (3) Byron and Greece; (4) The Greek Revival in the 19th Century; (5) The fairness of Byron's judgments; (6) Greek influence on 19th Century English poetry.

The competition is open to undergraduates and to resident graduates registered in the Department of Classics, English and History in the Graduate School. Essays must be submitted to the Department of English by April 15th.

PRIZES IN ARTS

1. The Neil Stewart Hebrew Prize.—An annual prize of $15 is open to all undergraduates and graduates of this University, and also to graduates of any other university, who are students of theology in some college affiliated to this University. It will be awarded on the result of the sessional examination in Hebrew of the Second Year.

The prize, founded by the late Rev. C. C. Stewart, M.A., and terminated by his death, was re-established by the liberality of the late Neil Stewart, Esq., of Vankleek Hill.

2. Early English Text Society's Prize.—This prize, the annual gift of the Early English Text Society, will be awarded for proficiency in the subjects of the language group in the English honour curriculum of the Third and Fourth Years.

3. New Shakespeare Society's Prize.—This prize, the annual gift of the New Shakespeare Society, open to graduates and undergraduates, will be awarded for a critical knowledge of the following plays of Shakespere:—Hamlet, Macbeth, Othello, King Lear.

4. Charles G. Coster Memorial Prize.—This prize, of the value of $25.00, and intended as a tribute to the memory of the late Rev. Chas. G. Coster, M.A., Ph.D., Principal of the Grammar School, St. John, N.B., is offered for competition by Mr. Colin H. Livingstone, B.A., to undergraduates (men and women) from the Maritime Provinces (Nova Scotia, New Brunswick and Prince Edward Island). It is awarded on the decision of the Dean of the Faculty of Arts to that student in Arts from the Maritime Provinces who shows the greatest proficiency in the examinations at the end of the session.

5. Annie Macintosh Prize.—The income of the sum of $1,130 ($425 of which was subscribed by the pupils and friends of the late Miss Annie Macintosh, and $618.97 bequeathed by the late Miss I. G. Macintosh), will be offered as a prize or prizes, to students of the Royal Victoria College in such subject, or for such work as the Faculty may determine.

6. Penhallow Prize.—The income of the sum of $1,100 collected by the Arts Undergraduates Society in 1911, will be assigned annually to the Department of Botany for a prize to be known as the "Penhallow" prize.

7. Henry Chapman Prize.—This prize, of the value of $15.00, is given in such modern languages as may be taught in the Faculty of Arts, other than English, and Hebrew shall also be included.

8. The Chester Macnaghten Prize of the value of $25.00 in books, established by Russell E. Macnaghten, Esq., M.A., in memory of his late uncle, will be awarded annually, through the University Literary and Debating Society, for reading in English.

SCHOLARSHIPS AND PRIZES IN APPLIED SCIENCE

I. ENTRANCE SCHOLARSHIPS

See pages 80 to 83.

II. AWARDED ON THE RESULT OF SPECIAL EXAMINATIONS

1. Two prizes, each of $10.00, presented by J. M. McCarthy, Esq., B.A.Sc., to students entering the Third Year, for proficiency in levelling and transit work.

2. Messrs. Babcock & Wilcox, Limited, offer every second year a scholarship of the value of $200.00 per annum, tenable for two years, to the best all-round man among the Engineering students who, having completed the work of the First and Second Years, is about to enter the Third Year, and who intends to make a special study of the subject of Steam Engineering. The conditions under which this scholarship is awarded may be ascertained on application to the Dean of the Faculty.

III. AWARDED ON THE RESULT OF THE SESSIONAL EXAMINATION OR FOR SPECIAL THESES

1. A British Association exhibition of $50.00 and a prize of $25.00 at the end of the Third Year, to the students who obtain the highest and the second highest aggregate marks, respectively, in the sessional examinations in Strength of Materials and Mechanics of the Third Year.

2. Three prizes of $25.00, $15.00 and $10.00, at the end of the Second Year, to the students obtaining the highest, and the second and third highest aggregate marks, respectively, in the sessional examinations in Analytic Geometry, Calculus and Mechanics of the Second Year.

3. A Scott exhibition of $50.00, founded by the Caledonian Society of Montreal, in commemoration of the centenary of Sir Walter Scott, and two prizes of $25.00 and $15.00, at the end of the First Year to the students obtaining the highest, and the second and third highest aggregate marks, respectively, in the sessional examinations in Mathematics, Descriptive Geometry and Physics of the First Year.

4. Workshop Prize.—A prize of $20.00 presented by Mr. C. J. Fleet, B.A., B.C.L., for bench and lathe work in the wood-working department, open to students of not more than two terms' standing in workshop practice.

5. A prize of $50.00, presented by Mr. James Tighe, B.A.Sc., for research work in Hydraulics.

6. An exhibition offered to graduates by Mr. A. E. Childs, M.Sc., for a special research on "The flow of gas through pipes under pressure."

7. A prize of $25.00, presented by Messrs. Anglin Norcross, Ltd., to the student obtaining the highest marks in Architectural Drawing in the Second Year (No. 34) of the Department of Architecture.

8. A prize of $25.00, presented by Messrs. Anglin Norcross, Ltd., to the student obtaining the highest marks in the senior class in Architectural Engineering (No. 30 or No. 31) in the Department of Architecture.

9. The Louis Robertson Prize, founded by Mr. and Mrs. John A. Robertson, in memory of their son, John Louis Armour Robertson, who was killed in the Great War on July 18th, 1916. To be awarded to the undergraduate student who ranks highest in Design in the Final Year of the course in Architecture.

10. A prize of $25.00, presented by P. J. Turner, Esq., to the student obtaining the highest marks in Building Construction of the Second Year course in Architecture.

11. Prizes given by the Montreal Light, Heat & Power Consolidated for Fourth Year students in the Department of Electrical Engineering, amounting to $200.00.

12. The following prizes are offered for the best summer essays:—

To the students of the Civil Engineering course, a prize of $25.00, from a friend.

To the students of the Electrical Engineering course, a prize of $25.00, offered by the McGill Electrical Club.

To the students of the Metallurgical Engineering course, a prize of $25.00 presented by Milton L. Hersey, Esq., D.Sc.

To the students of the Mechanical Engineering course, a prize of $25.00, presented by the Crosby Steam Gauge & Valve Co.

To the students of the Mining Engineering course, a prize of $25.00, presented by Dr. J. B. Porter.

13. There are offered each year by the Engineering Institute of Canada five student prizes of twenty-five dollars each, for the best paper in each of the branches of engineering—civil, mechanical, electrical, mining and chemical—received from a student member of the Institute. The successful papers become part of the literature of the Institute and place the authors in prominent touch with the engineering profession. Further particulars from R. J. Durley, Secretary, 176 Mansfield Street, Montreal.

14. Three prizes, one of $25.00 and the President's gold medal, one of $15.00 and one of $10.00, are offered annually for the best papers submitted to the Canadian Institute of Mining and Metallurgy by student members of the Institute.

15. The sum of $50.00 has been voted by the Undergraduates' Society of the Faculty of Applied Science, to be given as prizes for the best papers read before the Society during the session 1925-26.

16. One Sir William Dawson Exhibition, given by the New York Graduates' Society: value, $60.00.

17. A prize of $25.00 offered by the Canadian Section of the Society of Chemical Industry is awarded for the best essay on some important phase of chemical industry. Further particulars from the Secretary of the Society.

18. Certificates of merit are given to such students as take the highest place in the sessional and degree examinations.

IV. AWARDED AT THE DISCRETION OF THE FACULTY

1. The Hon. Robert Jones Scholarship, having a value of One Hundred and Twenty-five Dollars ($125.00) per annum, "is granted from time to time to some poor student for the full term of study in the Faculty of Applied Science."

Application for this scholarship should be made through the Dean of the Faculty of Applied Science. In awarding the scholarship the standing of the student in the matriculation examination will be considered, and the scholarship will not be continued if the standing of the student at any time during his course proves to be unsatisfactory.

2. The Baylis Scholarship, founded in memory of Mr. and Mrs. James Baylis, of Montreal, and having an annual value of $100.00, is awarded to some student who is in need of financial assistance to complete his course on entering the Second Year of the Faculty. The scholarship will be continued during the Third and Fourth Years, if the student's standing continues to be satisfactory.

Applications should be made through the Dean of the Faculty of Applied Science.

3. The Jenkins Bros., Ltd. Scholarship, presented by Messrs. Jenkins Bros., Ltd., of Philadelphia and Montreal, and having an annual value of $200.00, is open to all engineering students entering the Fourth Year of their course. The scholarship will be awarded on the basis of academic standing and personality.

4. The late Dr. James Douglas, who was a member of the Board of Governors, provided during his lifetime for twelve, or more, tutorial bursaries in the Faculty of Applied Science. In assigning these bursaries account will be taken of the circumstances of the applicants as well as of their academic standing.

These bursaries have a value of $100.00 per annum, and carry the obligation of giving tutorial instruction equivalent to one evening a week, to the satisfaction of the Faculty Committee. Students in the Third and Fourth Years of Applied Science are eligible.

MEDALS IN APPLIED SCIENCE

1. A British Association medal is open for competition to students of the graduating class in each of the seven courses, and, if the examiners so recommend, will be awarded to the student taking the highest position in the final examinations. The British Association medals and exhibition were founded by the British Association for the Advancement of Science, in commemoration of the meeting held in Montreal in the year 1884.

2. A gold medal and three prizes, offered by the Canadian Institute of Mining and Metallurgy. For further particulars, see page 272.

MEDALS, PRIZES AND FELLOWSHIPS IN MEDICINE

The Holmes Gold Medal, founded by the Medical Faculty in the year 1865, as a memorial of the late Andrew Holmes, Esq., M.D., LL.D., late Dean of the Faculty of Medicine, is awarded to the student of the graduating class who receives the highest aggregate number of marks in the different branches comprised in the medical curriculum.

The student who wins the Holmes Medal has the option of exchanging it for a bronze medal and the money equivalent of the gold medal.

The Wood Gold Medal, founded by Casey A. Wood, M.D., awarded to the student of the graduating class who receives the highest aggregate number of marks in the clinical examinations of the Final Year. The winner of the Holmes Medal and the winner of the Final Prize are not permitted to compete for this medal.

The Sutherland Gold Medal, founded in 1878 by the late Mrs. Sutherland, in memory of her late husband, William Sutherland, M.D., formerly Professor of Chemistry in this Faculty, is awarded for the best examination in general and medical chemistry, together with a creditable examination in the primary branches. The examination is held at the end of the Third Year.

The Final Prize.—A prize in books, awarded for the best examination, written and oral, in the final year. The Holmes and Wood medalists are not permitted to compete for this prize.

The Joseph Hils Prize. (Founded by the late Dr. Joseph Hils, of Woonsocket, R.I.).—A prize in books, awarded to the student who obtains the highest number of marks in the subject of Clinical Therapeutics.

The Fourth Year Prize.—A prize in books, awarded for the best examination, written and oral, in all the branches of the Fourth Year course.

The Third Year Prize.—A prize in books, awarded for the best examination, written and oral, in the branches of the Third Year.

The Joseph Morley Drake Prize. (Founded by the late Joseph Morley Drake, M.D.)—A microscope, to be awarded to the student of the Fourth Year who obtains the highest number of marks for the examinations in Pathology and Bacteriology.

The Second Year Prize.—A prize in books for the best examination in all branches of the Second Year course.

The First Year Prize.—A prize in books for the best examination in all branches of the First Year course.

The A. A. Browne Memorial Fellowship.—The sum of $10,000 has been received by the Faculty from the committee of the A. A. Browne Memorial Fund. With this sum a fellowship has been established, to be known as the "A. A. Browne Memorial Fellowship." This fellowship is open to graduates of any recognized Medical School and is for the advancement of medical science, special preference being given to the subjects of obstetrics and gynæcology.

The James Douglas Research Fellowship.—The sum of $25,000 has been received from Dr. James Douglas, of New York, the proceeds to be devoted to co-ordinated research in the laboratories of pathology in or associated with the University.

The James Douglas Studentship.—A studentship in patholgy, given by Dr. James Douglas, of New York, open to McGill graduates only, tenable for six years and of the value of $1,250 for the first year, increasing to $2,500.

The James Cooper Fund for the Study of Internal Medicine. This fund of $60,000 was donated in 1912 by the will of the late James Cooper of Montreal to promote research and to improve teaching in the Department of Medicine.

The John McCrae Scholarship.—A scholarship of approximately $600, founded in 1918 as a yearly donation by Mr. H. J. Fuller, of New York, in memory of the late Lt.-Col. John McCrae, for the purpose of scientific research in Experimental Surgery. Established in 1920 by Mr. Fuller and the Canadian Fairbanks-Morse Company as a permanent scholarship.

The Walter J. Hoare Memorial Scholarship.—A sum of money has been donated by Dr. Charles W. Hoare, a graduate of McGill University, as a Scholarship in the First Year Medicine, in memory of his

son, Walter J. Hoare, who was killed in the Great War. This Scholarship is open to pupils of the Collegiate Institute, Windsor, Ontario, and is awarded each year for the best examination for matriculation in the Medical Faculty of McGill University.

The John W. Flinn Research Fellowship.—In 1921 Dr. John W. Flinn, of Prescott, Arizona, gave the sum of $5,000, to be paid in five equal annual instalments of $1,000, this sum to be used for the assistance of medical research in tuberculosis.

The Hiram N. Vineberg Scholarship in Gynæcology, of the value of $250.00 per annum, donated in 1924 by Dr. Hiram N. Vineberg, of New York, a graduate of McGill University, 1878.

PRIZES AND SCHOLARSHIPS IN LAW

The "Elizabeth Torrance Gold Medal," founded in 1864 by Professor John Torrance in memory of his wife, is awarded to the student who obtains the highest marks in the Final Examination.

The Montreal Bar Association offers a prize of $50.00 to the student who obtains the highest standing in Commercial Law, and the Junior Bar Association a prize of $15.00 to the Civil Law student who obtains the best marks in Civil Procedure in the Final Year.

The "Alexander Morris Exhibition," of the value of $50.00, founded in memory of the late Hon. Alexander Morris, M.A., D.C.L., of Toronto, will be awarded to the student who obtains the highest standing in the Second Year.

Other prizes may be awarded at the discretion of the Governors.

The "Macdonald Travelling Scholarship" was founded by the will of the late Sir William Macdonald "for the purpose of enabling English-speaking Law students to take a course of studies in France," the testator "deeming it of great importance that the English-speaking members of the legal profession should be proficient in the French language." The value of the scholarship is the income derived from a capital sum of $20,000, and the scholar elected is required to pursue a year's study in the Law Faculty of the University of Dijon, France. The award is made at the discretion of the Faculty to a student of the graduating class who has obtained first or second class honours in the Final Examination.

Women students are not eligible for a Macdonald Scholarship so long as the law excludes them from admission to the Bar in the Province of Quebec.

The "Thomas Alexander Rowat Scholarship" was founded by Mr. Donald McKenzie Rowat, N.P., in memory of his brother, Lieutenant Thomas Alexander Rowat, B.C.L., who was killed in action at Lens,

France, on the 28th June, 1917. It is of the value of $120, and is awarded in alternate years for proficiency in the French language and in the old French law. Candidates must be British subjects of Anglo-Saxon or Celtic origin. The next award of this scholarship will be in 1927.

Students in the Faculty are eligible for election to the Rhodes Scholarships tenable at the University of Oxford for a term of three years.

MEDALS AND PRIZES IN DENTISTRY

The F. A. Stevenson Gold Medal.—Awarded to the student in the final year who stands first in the science and practice of Dentistry. The standing will be determined not only by the written and practical examinations at the end of the year, but by the general work of the student during the whole course.

Final Year Prize.—A prize in books will be awarded to the final year student who stands second in the class. The standing will be determined in a manner similar to that followed in the awarding of the gold medal.

Third Year Prizes.—Two prizes (first and second), in books, will be awarded to the Third year students in the science and practice of Dentistry. The method of determining the winners of these prizes will be similar to that adopted in awarding the prizes in the final year.

Second and First Year Prizes.—A prize in books is awarded to the student obtaining the highest standing at the Final Examinations.

SCHOLARSHIPS IN THE SCHOOL FOR GRADUATE NURSES

Scholarships are being offered for 1925-26 by the Association of Registered Nurses of the Province of Quebec, and a number of hospitals are providing annual scholarships for their own graduates. Among these are the Royal Victoria Hospital, Montreal General Hospital, Hamilton General Hospital, Hospital for Sick Children, Toronto, Toronto General Hospital and Winnipeg General Hospital.

The Victorian Order of Nurses for Canada offers a certain number of Scholarships of $400.00 each to graduate nurses who wish to avail themselves of a post-graduate course in Public Health Nursing at the Universities of Toronto, British Columbia, Vancouver, B.C., Western Ontario, London, Ont., Dalhousie, Halifax, N.S., and McGill University, Montreal.

Upon successful completion of her course, a nurse accepting one of these scholarships is expected to return to the service of the Victorian Order of Nurses for one year.

PRIZES IN PHYSICAL EDUCATION

1. First Year Prize.—The School offers a prize to the student of the First Year who attains the highest general proficiency in the sessional examinations.

2. Final Year Gold Medal.—The School offers a prize of a gold medal to the student of the graduating year who attains the highest general proficiency throughout the course.

3. A Cup presented by the Class of 1916 is held for one year by the student of the Second Year gaining the highest standing in practical work.

Note.—No student shall be entitled to more than one prize in the final year.

SCHOLARSHIPS IN THE SCHOOL FOR SOCIAL WORKERS

Among our college graduates, and also among those with a good general education who have been successful in the practical affairs of everyday life, there are many promising persons who would perform splendid service in the field of social work. For the benefit of such persons, who might find it very difficult to arrange for an extended period of practical education and training in social work, a few scholarships have been established. These scholarships are for two-year (Diploma) students, and amount to $150 for each of the two years. They will be awarded on a basis of ability, experience, references and financial need.

At present three such scholarships are held by students in the School. These scholarships are named after their donors: The Montreal Women's Club Scholarship, the Notre Dame de Grace Women's Club Scholarship and the Montreal Rotary Club Scholarship.

It is expected that additional scholarships for the year 1925-26 will be open to candidates. Applications should be sent to the Director at an early date.

Prizes are offered for the highest standing in the work of the various courses.

MEDALS IN PHARMACY

For the session 1925-26 a medal is offered as a prize to the graduate who obtains the highest total percentage over 80 per cent.

SCHOLARSHIPS—GENERAL

1. The Rhodes Scholarship.—This scholarship is of the annual value of £300 sterling and is tenable at the University of Oxford for three years. The scholar must be a British subject, must be over 19 and under 25 years of age, and must have reached at least the end of his Sophomore or Second Year in the University.

Full particulars can be obtained from Gilbert S. Stairs, B.A., K.C., McGibbon, Mitchell, Casgrain and Stairs, 107 St. James St., Montreal, who is the Secretary of the Selection Committee of the Province of Quebec.

2. SCIENCE SCHOLARSHIPS GRANTED BY HER MAJESTY'S COMMISSIONERS FOR THE EXHIBITION OF 1851.—These scholarships, of the value of £200 sterling a year, are tenable for two, or, in rare instances, three years. They are limited, according to the Report of the Commission, "to those branches of science, such as physics, mechanics and chemistry, the extension of which is especially important for our national industries." Their object is not to facilitate ordinary collegiate studies, "but to enable students to continue the prosecution of science with the view of aiding in its advance or in its application to the industries of the country."

They are open to students of not less than three years' standing who have shown evidence of capacity for original research, and are tenable at any university or other institution approved by the Commission.

Three of these Scholarships are allotted to Canada each year, the scholars being chosen by the Commission from the nominees of a certain number of Universities, among which McGill is included.

FELLOWSHIPS, SCHOLARSHIPS AND MEDALS FOR GRADUATES

THE GOVERNOR-GENERAL'S SILVER MEDAL (the gift of his Excellency Baron Byng of Vimy) will be awarded for graduate research work in science.

THE MCGILL DELTA UPSILON MEMORIAL SCHOLARSHIP. — This scholarship has been founded by the McGill Chapter of the Delta Upsilon Fraternity to perpetuate the memory of the members of that Chapter who gave their lives in the Great War.

It is open to all graduates of the University, and the following considerations will govern the award:—(a) The general scholarship of the candidate; (b) His need of financial assistance for further study; (c) The general usefulness to the community of the special branch of study he proposes to follow; (d) The likelihood that the candidate will reflect credit on the University.

The present value of the scholarship is about $750.

THE LEROY MEMORIAL FELLOWSHIP IN GEOLOGY.—This fellowship was established by some friends of Captain O. E. LeRoy (Arts, 1895), who was killed in the Battle of Passchendale, in October, 1917. It will be annually awarded to a worthy student who desires to proceed to post-graduate studies in Geology at McGill University. The recipient

of this award may be called upon to assist in the teaching work of the Department. This Fellowship is awarded by the Head of the Department of Geology and Mineralogy in consultation with the Principal. It is of the annual value of $700.

THE MILTON L. HERSEY SCHOLARSHIP, having a value of four hundred dollars, is open to any graduate. Preference will be given to applications from students who desire to work on the application of practical chemistry to agriculture.

THE T. STERRY HUNT RESEARCH SCHOLARSHIP (value $1,000 for one year). This scholarship is open to graduates in Chemistry and Chemical Engineering who have completed their courses for the degree of M.Sc. or Ph.D. and who have shown high capacity for research.

THE NEW JERSEY ZINC COMPANY offer a scholarship of $1,200 per annum for research in connection with the rubber industry under Dr. G. S. Whitby.

THE MOYSE TRAVELLING SCHOLARSHIPS.—Two scholarships of the value of $1,500 each, to be known as The Moyse Travelling Scholarships, tenable for one year, have been founded by Right Honourable Lord Atholstan, to commemorate the "splendid services of Dr. Charles E. Moyse, for forty-two years Professor of English, during sixteen of which he was Dean of the Faculty of Arts and Vice-Principal of the University."

These scholarships are open primarily to graduates of the Faculty of Arts. One will be awarded for distinction in literary subjects, and the other for distinction in pure and applied science and the holder must devote the period of the tenure of the scholarship to advanced study, preferably in a British or European university.

Applications are to be made to the Dean of the Faculty of Arts before the first of April each year.

The following three graduate Fellowships are awarded annually in the Department of Economics and Political Science:—

THE ALLEN OLIVER FELLOWSHIP, tenable at McGill University or elsewhere, as sanctioned by the department; $500 for one year.

THE MONTREAL MANUFACTURERS GRADUATE FELLOWSHIP; $800 for one year. The holder of this fellowship must devote himself especially to a subject connected with the trade and industry of Canada.

THE GRADUATE (WORKING) FELLOWSHIP; $800 a year. The holder of this fellowship is required to devote one-third of his time to the work of the University in the correction of junior exercises, etc.

The following Scholarships are tenable at Macdonald College:—

MACDONALD COLLEGE AGRICULTURAL ALUMNI ASSOCIATION GRADUATE SCHOLARSHIP. In memory of graduates and undergraduates of the Faculty of Agriculture who died in service during the Great War, 1914-1918; created, in connection with the McGill Centennial Campaign, 1920, through subscriptions of graduates, undergraduates, members of the staff of instructors and other friends; of a present value of about $200.00 and available to any graduate in Agriculture of Macdonald College (McGill University) for graduate work, in any branch pertaining to agriculture at any college or university of recognized standing. The holder of this scholarship shall be chosen by a committee appointed by the executive of the Macdonald College Agricultural Alumni Association, and application for the same, or for further information regarding it, should be addressed to:—Mr. T. C. Vanterpool, General Secretary, Macdonald College, P.Q.

MACDONALD GRADUATE SCHOLARSHIPS. The W. C. Macdonald Reg'd. have offered ten scholarships, two to the Province of Quebec and one to each of the other provinces of the Dominion, valued at $500.00 each for the academic year, tenable at Macdonald College. The Province of Quebec scholarships are offered: one to the graduates of the University of Montreal (the Agricultural Institute, Oka) and one to the graduates of Laval University (the Agricultural School of Ste. Anne de la Pocatière). If these scholarships are not taken up by the first of July immediately preceding the academic year, they are to be at the disposal of Macdonald College. Applications should be made through the Head of the Faculty of Agriculture or Agricultural College of the Province concerned, to the Principal, Macdonald College, P.Q.

QUEBEC MINISTER OF AGRICULTURE GRADUATE SCHOLARSHIPS. The Minister of Agriculture of the Province of Quebec has granted three scholarships for the session of 1925-26, one each to graduates of the Oka Agricultural Institute (University of Montreal), the School of Agriculture, Ste. Anne de la Pocatière (Laval University), and the School of Agriculture, Macdonald College (McGill University); of the value of $500.00 each, for graduate work at Macdonald College; on the understanding that the holders of such scholarships are residents of the Province of Quebec and that such scholarships shall be awarded by the Minister, upon the recommendation of the three Schools of Agriculture concerned.

POST GRADUATE SCHOLARSHIPS GRANTED BY THE IMPERIAL ORDER OF THE DAUGHTERS OF THE EMPIRE.—Nine are offered annually—one for each Province. They are of the value of $1,400.00, are tenable for one year and have been founded "to enable students to carry on studies at

any university in the United Kingdom, in British and imperial history, the economics and government of the Empire and Dominion, or any subject vital to the interests of the Empire."

Full details may be obtained from the Secretary of the National Chapter of Canada, 238 Bloor Street East, Toronto, Ont.

UNIVERSITY WOMEN'S FEDERATION SCHOLARSHIP.—This Scholarship of the Canadian Federation of University Women, of the value of $1,000, available for study or research work, is open to any woman holding a degree from a Canadian University. In general, preference will be given to those candidates who have completed at least one or two years of graduate study and have a definite research in preparation. The award is based on evidence of character and ability of the candidate and promise of success in the subject to which she is devoting herself.

The choice of the University at which the successful candidate shall pursue her study or research work is left to the Committee of Selection in consultation with the candidate.

Full information can be obtained from the Convener of the Scholarship Committee, Mrs. Douglas Thom, 2220, 16th Ave., Regina, Sask.

Applications must be received not later than February 1st.

THE PROVINCE OF QUEBEC SCHOLARSHIPS.—Fifteen scholarships are granted annually by the Government of the Province of Quebec to men graduates desirous of completing their studies in Europe.

Candidates are required to make application to the Principal. Applications must be supported by a recommendation from the Dean of the Faculty to which the candidate belongs or from which he has graduated, and may be supported by other recommendations. Candidates must be Canadians, bona fide residents of the Province of Quebec and not over twenty-five years of age. The limitation as to age is suspended in the case of ex-soldiers. The Province does not necessarily accept all the candidates recommended by the University.

Two research and teaching fellowships, of the value of $750.00 each, have been established in the Mining Department—one endowed in memory of the late Sir William Dawson, one endowed by the late Dr. James Douglas, and a third, of a slightly less value, is supported by graduates in Mining in the name of the late Dr. B. J. Harrington. All three fellowships are awarded annually if suitable candidates offer.

A research and teaching fellowship of the value of $80.00 per month during the University session is offered to students graduating in the Metallurgical Department. The student holding this fellowship is expected to spend two-thirds of his time in research and study for the M.Sc. degree, and one-third in teaching and other work for the Department.

FEES.

GENERAL REGULATIONS.

1. Fees are due and payable to the Bursar as follows:—

Students in Law	Sept.	18th
" " Medicine	"	24th and 25th
" " Dentistry and Pharmacy	"	28th
" " Arts (men and women), Commerce excepted	Oct.	1st and 2nd
" " Commerce	"	5th
" " Applied Science	"	7th and 8th
" " Schools for Graduate Nurses, Social Workers and Physical Education	"	9th

Fees will also be received before October 1st. They may be paid by cheque, which should be mailed so as to reach the Bursar by the date mentioned or handed in on that day.

Students who pay by instalments will be required to pay the second instalment on or before February 1st.

2. After October 10th or February 1st (in the case of those who pay by instalments) an additional fee of $2.00 will be exacted of all students in default.

3. Students registering after October 10th shall pay their fees at the time of registration, failing which they become subject to the provisions of regulation 4.

4. Immediately after October 20th, or February 5th (in the case of students who pay by instalments), the Bursar will send to the Deans of the several Faculties a list of the registered students who have not paid their fees, on receipt of which the Dean shall cause their names to be struck from the registers of attendance, and such students cannot be readmitted to any class except on presentation of a special ticket, signed by the Bursar, certifying to the payment of fees.

FEES IN ARTS

Sessional fee for the undergraduate course in Arts (This includes fee for library, gymnasium and graduation.)	$100.00
By instalments:—	
First instalment, if paid before October 10th	$ 51.00
Second instalment, if paid before February 1st	51.00

Sessional fee for the undergraduate course in the School of Commerce	$150.00
By instalments:—	
First instalment, if paid before October 10th	$ 77.00
Second instalment, if paid before February 1st	77.00

At the request of the students themselves and by the authority of Corporation, an additional fee of $17.00 will be exacted from all men undergraduates, for the support of the Literary and Debating Society, the Arts Undergraduates' Socicty, the Commercial Society, the Canadian Club, the Union, the McGill Daily and athletics. Women students pay an additional fee of $3.00 for athletics and athletic grounds, $2.50 for the McGill Women Students' Society, which includes all Royal Victoria College Societies, and $1.50 for the McGill Daily.

Fees for Laboratory Courses.

$5.00 per hour per week of instruction for the academic year, but the maximum fee shall not exceed $30.00 for any one course nor $60.00 for any one student. This fee will cover laboratory materials, reagents, the use of instruments, and ordinary wear and tear of instruments and apparatus, but it will not cover losses through waste, neglect, or breakage. The charges under this head will be deducted from the students' caution money at the end of the session.

Fees for Limited Undergraduates in the Faculty of Arts.

In the First Year the fees shall be $17.00 per course; in the Second Year $20.00 per course; in the Third and Fourth Years $25.00 per course.

Fees for Limited Undergraduates in the School of Commerce.

In the First Year the fees shall be $25.00 per course; in the Second, Third and Fourth Years $30.00 per course.

Any Arts student transferring to Second Year Commerce must pay a fee of $200.00 for that year.

Fees for Partial Students in Arts.

The fees for partial students are: $4.00 for library, $3.00 for athletics and athletic grounds, and a fee at the rate of $7.00 for an hour a week of instruction during the academic year, but the maximum fee shall in no case exceed the full undergraduate fee.

Fees for Partial Students in Commerce: $4.00 for library, $3.00 for athletics and athletic grounds and a fee at the rate of $9.00 for an hour a week of instruction during the academic year, but the maximum fee shall in no case exceed the full undergraduate fee.

Graduates in Arts of this University are allowed, on payment of one-half of the usual fees, to attend all lectures in the undergraduate course, except those for which a special fee is exigible. Graduates of other universities attending full courses in affiliated theological colleges are given the like privilege.

Special Fees.

Supplemental examination, taken at the regular date fixed by the Faculty	$ 5.00
Each subsequent supplemental examination in the same subject	10.00
Supplemental examination, when granted at any other time than the regular date fixed by the Faculty, for each examination period	10.00

All fees for supplemental examinations must be paid to the Bursar and the receipts shown to the Dean before the examination.

Certificates of standing (general)	$ 1.00
Certificate of standing, accompanied by a statement of classification in the several subjects of examination	2.00

All applications for certificates must be addressed to the Registrar of the University, accompanied by the required fee.

No certificates are given for attendance on lectures unless the corresponding examinations have been passed.

For the degree of B.A. or B.Sc. (Arts) conferred in absentia (except when the candidate has been specially exempted by the Faculty)	$20.00

Caution Money.—Every student is required to deposit with the Bursar the sum of $10.00 as caution money, to cover damages done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the session.

LIBRARY FEES

The Library fee for undergraduate students in the Faculties of Arts, Applied Science and Law is included in the University fees. The fee for partial students is $4.00. Graduates, extension course students, and medical students using the University Library must make a deposit of $5.00 at the Bursar's Office. The fees for members of the McGill College Book Club and the University Book Club are payable to their respective treasurers. Individuals not belonging to any of the above groups may use the Reading Room without charge, but should apply to the Library Committee, through the Librarian, for permission to take books from the building.

FEES IN APPLIED SCIENCE

Sessional fee for the undergraduate course..... $205.00

By instalments:—
First instalment, if paid before October 10th..... $105.00
Second instalment, if paid before February 1st..... 105.00

Fees are payable on October 7th and 8th, but they will also be received before October 1st. They may be paid by cheque, which should be mailed, so as to reach the Bursar by the date mentioned, or handed in on that day.

After October 10th or February 1st (as the case may be) an additional fee of $2.00 will be exacted of all students in default.

Students taking the summer schools in May and September are required to pay the sum of $35.00 (including Caution Money Deposit), which will be placed to their credit on the fee for the following session.

At the request of the students themselves, and by authority of Corporation, an additional fee of $17.00 will be exacted from all undergraduates for the support of student activities.

Graduates of this Faculty taking an additional undergraduate course will pay one-half of the undergraduate fee.

Students taking the six-year double course in Arts and Applied Science or the seven-year course in Arts and Architecture shall pay full fees in Arts for the first three years of their course and full fees in Applied Science for the remaining three or four years, as the case may be, and an extra fee for the work required to be done in Applied Science whilst they are taking their course in Arts, to be computed at the rate charged partial students as stated below.

The fees for partial students are:—$4.00 for library, $3.00 for athletics and athletic grounds, $1.00 for the Undergraduates' Society, and a fee at the rate of $7.00 for an hour a week of instruction during the academic year, but the maximum fee shall in no case exceed the full undergraduate fee.

Fee for the degree of B.Sc., conferred in absentia (except when the candidate has been specially exempted by the Faculty).. $20.00

For a regular supplemental examination, the fee is $5.00, for each subsequent supplemental examination in the same subject $10.00, for a special supplemental examination $10.00.

Caution Money.—Every student is required to deposit with the Bursar the sum of $10.00, as caution money, to cover damages done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the session.

FEES IN MEDICINE

All students must register with the University Registrar before paying their fees.

1. Fees are due and payable to the Bursar on September 24th and 25th. They may be paid by cheque, which should be mailed, so as to reach the Bursar by the date named.

Fees will also be accepted before September 21st.

Students who pay by instalments will be required to pay the second instalment on or before February 1st.

After September 25th or February 1st (in the case of those who pay by instalments) an additional fee of $2.00 will be exacted of all students in default.

2. Immediately after September 28th, or February 5th (in case of students who pay by instalments), the Bursar shall send to the Dean of the Faculty a list of the registered students who have not paid their fees, on receipt of which he shall cause their names to be struck from the register of attendance, and such students cannot be re-admitted to any class except on presentation of a special ticket, signed by the Bursar, certifying to the payment of fees.

3. Students registering after September 25th shall pay their fees at the time of registration, failing which they become liable for the additional fee of $2.00 exacted of students in default.

4. The total Faculty fees for the medical course of five full sessions, including clinics, laboratory work, dissecting materials and reagents, will be *one thousand and twenty-five dollars,* payable in five annual instalments of $205.00 each.

At the request of the students themselves and by the authority of Corporation, an additional fee of $17.00 will be exacted from all men undergraduates, for the support of the Literary Society, the Undergraduates' Society, the Canadian Club, the Union, the McGill Daily, and athletics.

Women students are required to pay, in addition to the tuition fees, $3.00 for athletics and athletic grounds, $2.50 for the Women Students' Society and $1.50 for the McGill Daily.

The sum of $10.00 is collected from all students at the time of registration as "caution money," from which deductions for breakage reported from the laboratories or lecture rooms are made and a refund granted at the close of the session.

5. Partial students will be admitted to one or more courses on payment of special fees.

6. Students repeating the course of study of any academic session are not required to pay full fees. A fee of one hundred dollars will be charged, which will include dissecting material, chemical reagents, laboratory fees, etc.

7. Students taking out extra dissecting material will be charged at the rate of $10.00 for a half session, and $20.000 for a whole session.

8. An *ad eundem* fee of $10.00 is charged students entering from another university in any year above the first.

9. When the degree of Doctor of Medicine and Master of Surgery is conferred in absentia, a fee of twenty dollars will be charged, unless the candidate has been specially exempted by the Faculty.

10. The fee for the graduate course in Public Health, including laboratory fee, the fee for outdoor work and the diploma fee, is $100.00.

SUMMARY OF FEES

Sessional fee		$205.00
By Instalments:		
First instalment, if paid before Sept. 28th	$104.00	
Second instalment, if paid before February 5th	104.00	
Microscope, first instalment (on deferred payment plan)	35.00	35.00
Caution money (deposit)	10.00	10.00
Fee for Union, athletics, etc.	17.00	17.00
	$270.00	$267.00

MICROSCOPES

Each student is required to provide himself, on beginning his studies, with a first-class microscope for laboratory and private study throughout his course. The Faculty will supply the instruments necessary for demonstrations, etc. The microscope must be of substantial construction and be provided, as a minimum, with the following accessories:—2/3, 1/6 and 1/12 oil immersion objectives, and a substage condenser. Such an instrument will last a lifetime and is an essential part of the equipment of a practitioner in medicine.

Should the student not be provided with such a microscope, he may purchase a new guaranteed instrument through the Bursar's office of the University for the sum of $120.00 or on the deferred payment plan, by which payment is spread over five years as follows:—First Year, $35.00; second year, $27.50; third year, $25.00; fourth year, $22.50; fifth year, $15.00.

FEES IN LAW

The sessional fee of $155.00 is payable to the Bursar not later than the 2nd of October, and should be paid on September 18th. Students who prefer to do so may pay the fee in two instalments of $79.00 each, the second of which is due on the 1st of February.

Students who make default in payment are liable to be removed from the Faculty in accordance with the regulations of the University.

Men students pay an additional fee of $17.00 for the support of various undergraduate activities and for athletics. This fee has been sanctioned at the request of the student body.

When the degree of B.C.L. is conferred *in absentia* a fee of $20.00 will be exacted, unless the student has been specially exempted by the Faculty.

Partial students will pay a fee calculated at the rate of $9.00 for an hour per week of instruction for the academic year, and $3.00 for athletics and the use of athletic grounds.

Every student is required to deposit with the Bursar the sum of $5.00 as caution money to cover damage done to University property. The balance, less any deductions, will be returned at the close of the session.

FEES IN DENTISTRY

Sessional fee		$210.00
By instalments:—		
First instalment, if paid by 10th October	$107.00	
Second instalment, if paid by 1st February	107.00	
Athletics and Societies		17.00
Caution Money (deposit)		10.00
		$237.00

The fee of $20.00 is exacted when the degree of D.D.S. is conferred in absentia.

The cost of instruments and material for First Year students is at least $40.00 and for Second Year students $350.00. These instruments are practically all that will be needed in an ordinary dental practice.

The sum of $10.00 is collected from all students at the time of registration as "Caution Money," from which deductions for breakages reported from the laboratories or lecture rooms are made. The balance will be refunded at the close of the session.

Partial students will be admitted to one or more courses on payment of special fees.

Students repeating the course of study of any academic session are not required to pay full fees. A fee of one-half the regular fee will be charged, which will include dissecting material, chemical reagents, laboratory fees, etc. The same fee is charged students entering from other colleges who have already paid full fees elsewhere for the courses taken. Students repeating the Third or Fourth Year will be required to pay in addition a Hospital Fee of $25.00.

An *"ad eundem"* fee of $10.00 will be charged students entering from another university in the Second, Third or Fourth Year of the course.

Fees shall be paid to the Bursar on September 28th, or at any time before September 22nd. They may be paid by cheque, which should be mailed so as to reach the Bursar by the date mentioned. After October 10th, or February 1st (in the case of those who pay by instalments), an additional fee of $2.00 will be exacted of all students in default.

All undergraduate women students must pay in addition to their tuition fees, $3.00 for athletics and athletic grounds, $2.50 for the McGill Women Students' Society and $1.50 for the McGill Daily.

Immediately after October 20th, the Bursar shall send to each of the Deans of the several faculties a list of the registered students who have not paid their fees, on receipt of which the Deans shall cause their names to be struck from the register of attendance, and such students cannot be readmitted to their classes except on presentation of a special ticket, signed by the Bursar, certifying to the payment of fees.

Students registering after October 10th shall pay their fees at the time of registration, failing which, they become subject to the provisions of the above regulation.

FEES IN MUSIC

CONSERVATORIUM FEES.

The fees will be as follows:—

Regular students. $180 a year payable at the beginning of the session (not later than October 1st), or in two instalments of $92 each, payable before October 1st and February 1st, respectively. This sum will also cover the fees for Diploma or Degree Examination at the end of the year.

Senior Partial Students. $42 per term of eleven weeks. Students paying in full for the three terms of eleven weeks each, will be allowed to take the examination for a Certificate at the end of the year without any further fee.

Junior Partial Students. $35 per term of eleven weeks. Students paying in full for three terms of eleven weeks each, will be allowed to take the examination for a Certificate at the end of the year without any further fee. No one over the age of 16 years can enroll as a Junior Partial student.

Repertoire Students. $60 per term of eleven weeks.

Occasional Students. Fees vary between $15 and $5 per term, according to class. Precise information can be obtained on this point from the Secretary.

The Fees for examinations for Certificates, when not included in the term fees as above mentioned, will be the same as the fees for the Local Examinations. See Special Announcement.

In all cases fees must be paid strictly in advance at the office of the Conservatorium.

No individual or class lessons will be given to any student who is unable to produce a card, showing that the necessary fees have been paid.

FEES FOR DIPLOMA AND DEGREE EXAMINATIONS.

DIPLOMA OF LICENTIATE (L. Mus.).—Fees for examinations, $45, of which $15 is payable at each examination. Diploma fee, $5.

DEGREE OF BACHELOR OF MUSIC.—Matriculation fee, $7 (see University Calendar). Fees for examinations payable as follows:—First examination in Music, $20. Second examination in Music, $20. Final examination in Music, $20. Graduating fee, $20.

Although under special conditions exemptions from certain examinations for the Diploma of Licentiate and Degree of Bachelor of Music may be allowed, there will be no exemption from the fees given above, except in the case of candidates holding McGill Local Centre Certificates.

DEGREE OF DOCTOR OF MUSIC.—Fee $100, one-half of which ($50) is to be paid when submitting exercise and the balance ($50) before the final examination.

N.B.—Candidates examined in theoretical subjects connected with the above Degrees and Diplomas at centres other than Montreal will probably have to pay a local supervisor's fee in addition to the fees stated above.

FEES IN PHARMACY

All students must register with the University Registrar before paying their fees.

For the session 1925-26 the fees for separate courses will be as follows:—

Registration fee	$ 5.00
Fee for Athletics and Athletic Grounds	3.00
Course in Junior Chemistry and Physics	50.00
Course in Senior Chemistry	50.00
Course in Junior Materia Medica and Pharmacy	50.00
Course in Senior Materia Medica and Pharmacy	50.00
Course in Practical Pharmacy (Junior)	50.00
Course in Practical Pharmacy (Senior)	50.00
Course in Analytical Chemistry	50.00
Course in Botany	25.00
Diploma Fee	15.00
Fee for Supplemental Examination, each subject	5.00

Certain fees are payable to the Pharmaceutical Association of the Province of Quebec for registration, examinations, and for the licentiate in pharmacy. (See page 81.)

For regulations regarding payment of fees, see page 107.

FEES AND DEPOSITS IN THE SCHOOL FOR GRADUATE NURSES

The fee for any certificate course is $100.00 a year (including the use of the Library), to be paid by October 10th, or payable in two instalments of $51.00 each, the first to be paid by October 10th and the second by February 1st.

Partial Students:—Fee at the rate of $7.00 for an hour of instruction a week during the academic year; library fee of $4.00; special fee for courses which include laboratory work.

Regular students, as in all departments of the University, pay in addition a $3.00 athletics fee.

A deposit of $5.00 caution money is required from all regular students.

EXPENSES.

A statement of average expenses for the academic year is as follows:—

University fees	$103.00	
Books	20.00 to	$ 40.00
Room (30-32 weeks)	175.00 "	225.00
Board	225.00 "	300.00
Incidentals	30.00 "	40.00
Average total	550.00 "	700.00

FEES IN THE SCHOOL FOR SOCIAL WORKERS

For Diploma Students.—The annual fee is $70.00; if paid in two instalments (in October and February) $72.00 (this includes the library fee).

Other fees payable by women students are as follows:—

Grounds fee	$3.00
McGill Women Students' Society	2.50
McGill Daily	1.50

Students are also required to deposit with the Bursar the sum of $5.00 as caution money, to cover damages done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the Session. Books and other School expenses should not exceed $15.00.

Partial Students.—Partial students will be charged a fee at the rate of $7.00 for an hour a week of instruction during the academic year, but the maximum fee shall in no case exceed the full Diploma fee. Partial students taking three hours or more a week will be required to pay the library fee ($4.00), the grounds fee ($3.00), and deposit $5.00 with the Bursar as caution money.

Extension Course Students and Partial Students taking less than three hours a week of Instruction.—These students desiring to use the University Library will be required to deposit $5.00 with the Librarian to cover damage done to books. This amount, less deductions (if any), will be returned at the close of the Session. A nominal fee, to be arranged by the Committee, will be charged for Extension Lectures.

Fees for the Session 1925-26 in the School for Social Workers may be paid before October 1st or on Friday, October 9th, 1925. They may be paid by cheque, which should be mailed to the Bursar so as to reach him by the last-named date.

FEES IN THE SCHOOL OF PHYSICAL EDUCATION

Sessional fee	$150.00

By instalments:

First instalment, if paid before or on October 9th	77.00
Second instalment, if paid before or on February 1st	77.00

A fine of $5.00 for the first week and of $10.00 for the second week is exacted for late registration.

NOTE.—The deposit fee of $10 00 made at the time of acceptance of application will be credited toward the Sessional fee.

Students are required to pay the Universal fee of $2.50 which entitles them to membership in the McGill Women's Students' Society and subsidiary societies, and $1.50 for the McGill Daily.

In addition there will be a fee of $5.00 for athletics and athletic grounds.

Fees for Partial Students: $4.00 for library, $5.00 for athletics and athletic grounds and a fee at the rate of $9.00 for an hour a week of instruction during the academic year, but the maximum fee shall in no case exceed the full undergraduate fee.

Supplemental examination in any subject	$ 5.00
Special supplemental examination in any subject	10.00

Caution Money. Every student is required to deposit with the Bursar the sum of $5.00 as caution money, to cover damages done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the session.

FEES IN THE FACULTY OF GRADUATE STUDIES.

For the course leading to the degrees of M.A., M.Sc. or M.S.A.	$60.00
For each year of the course leading to the degree of Ph.D.	60.00
Graduation fee for M.A., M.Sc., or M.S.A.	20.00
Graduation fee for M.A., M.Sc., or M.S.A. (in absentia)	40.00
Graduation fee for Ph.D.	30.00
Graduation fee for the degree of D.Litt.	80.00
Graduation fee for the degree of D.C.L.	80.00
Graduation fee for the degree of D.Sc.	80.00
Graduation fee for the degree of Mus. Doc.	100.00

Registration:—Students taking more than one year for the degree of M.Sc. or M.A. and those taking more than three years for the Ph.D. degree, are required to pay $5.00 on registration for each additional year.

All fees for courses of instruction are payable on registration.

There is no fee for the degrees of LL.D. or M.A. when granted *honoris causa*.

The graduation fee (which covers the charges for examination) is payable when the candidate presents himself for examination and is not returnable if he is unsuccessful. **No thesis can be accepted unless it is accompanied by a receipt from the Bursar for this**

fee. If, however, a candidate for the degree of M.A., M.Sc., or M.S.A. fails, he may present himself for the examination in a subsequent year without further payment of fees. A candidate for the degree of Ph.D., D.Sc., or D.Litt., in case of failure, may present himself once again, in a subsequent year, upon payment of an additional sum amounting to one-half of the usual fee for this degree.

Lecturers, tutors and demonstrators in the University who are proceeding to the degree of Master of Arts, Master of Science, Master of Science in Agriculture or Doctor of Philosophy, shall, so long as they remain members of the teaching staff, be exempt from the tuition fee, but will be required to pay laboratory and registration fees and the fee for graduation in every case. In the event of their leaving the staff after one year of the course, they are required to pay a tuition fee of $20.00 in the M.A., M.Sc. or M.S.A. course and the prescribed fee in the Ph.D. course.

STUDENTS' EXPENSES

1. BOARD AND RESIDENCE

No college residences have as yet been erected for men students, but dormitory accommodation for about 60 is provided in Strathcona Hall, the home of the Student Christian Association of McGill University. Full particulars concerning terms of residence, etc., may be obtained from the Secretary of the Association, 348 Sherbrooke Street West, Montreal, who will also make arrangements to have students who are strangers to the City met on arrival and helped to secure lodgings, if due notice is sent of the station and time at which they will arrive.

Information about boarding and lodging houses may be had on application to the Secretary at Strathcona Hall. A list of suitable houses is prepared about a fortnight before the opening of the session each year. Owing to frequency of change, this list is not mailed.

Women students may board and reside either in private houses or in the Royal Victoria College, which provides, in addition to separate lecture rooms, residential accommodation for the women students of the University. The expense of board and residence for the session in the Royal Victoria College is $500. Further particulars will be furnished by the Warden.

Board and lodging can be obtained in private houses in the vicinity of the University buildings at a cost of from $60 and upwards per month; or, separately, board at $45 to $55 per month, rooms from $15 to $20 per month.

Board is furnished in the McGill Union at low rates. The dining room, which is a special feature of the Union, will accommodate over 120 students at a time. There is also a lunch counter where meals are served *à la carte*.

2. APPROXIMATE ESTIMATE OF COST OF COURSE

Faculty of Arts (Men).

(In all Years except the last the session extends from October 1st to May 15th.)

	Minimum	Moderate
Tuition Fees	$100	$100
Fee for Athletics, Union, etc.	17	17
Board and Lodging	450	550
Books, Apparatus and Laboratory Fees	30	35
	$597	$702

Faculty of Applied Science.

(In all Years except the last the session extends from October 1st to May 1st.)

	Minimum	Moderate
Tuition Fees	$205	$205
Fee for Athletics, Union, etc.	17	17
Board and Lodging	425	525
Books and Instruments	40	50
	$687	$797

Students attending summer courses, required in certain years, for an additional period of one month, will have to spend from $60 to $70 extra in those particular years.

Faculties of Medicine and Dentistry.

(In all Years except the last the session extends from October 1st to May 20th.)

	Minimum	Moderate
Tuition Fees	$200	$200
Fee for Athletics, Union, etc.	17	17
Board and Lodging	460	560
Books, Instruments, etc. (in Medicine)*	150	170
	$827	$947

Undergraduates in Arts residing in affiliated theological colleges, with a view to a course in theology, are able to obtain board and lodging for less than the minimum shown above, and in all Faculties the expense under the head of "Books and Instruments" can be reduced by purchasing these at second-hand.

It will be noticed that in the above estimate no account is taken of personal expenses, such as cost of clothes, laundry, etc., nor yet of the caution money deposit which is made by each student at the commencement of the session. This amounts to $5.00 in the Faculty of Law and $10.00 in the Faculties of Arts, Medicine and Applied Science. It might be well also to reckon on at least $20.00 to $25.00 per annum for subscriptions of various kinds.

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*The cost of instruments and material in Dentistry for First Year students is at least $40.00 and for Second Year students $350.00. These instruments are practically all that will be needed in an ordinary dental course.

MORALS AND DISCIPLINE

1. University discipline shall be exercised by the several Faculties, and by the Committee on Morals and Discipline, subject in the cases hereinafter mentioned to revision or confirmation by Corporation.

2. Subject to the provisions of the following sections, each Faculty shall be entitled to exercise University discipline over its own students.

3. All cases of discipline involving the interests of more than one Faculty, or of the University in general, shall be dealt with by a standing Committee of Corporation, to be known as the Committee on Morals and Discipline. The Committee shall have power to summon as assessors the President and Vice-President of the Students' Council.

4. All such cases of discipline as are referred to in sub-section 3 shall be reported to the Principal, or, in his absence, to the Vice-Principal, or, in the absence of both, to the senior Dean present in the city. If the Principal, or, as the case may be, the Vice-Principal or the Dean, deems action necessary, the matter shall be reported to the Committee on Morals and Discipline. Corporation shall also have the power to report such matters to the said Committee.

5. When sentence of expulsion, or of suspension for more than three months, has been pronounced or recommended by a faculty, or by the Committee on Morals and Discipline, the Corporation may entertain an appeal, which shall be final.

6. "University discipline" shall mean any appropriate method of exercising authority over students, and shall, but without prejudice to the foregoing generality, include the power of expulsion, suspension, disqualifying from competing for scholarships, exhibitions, medals, prizes or honours, imposing fines, not exceeding $25.00, on any student, levying assessments for damage done, reporting to parents or guardians and admonition.

7. Any students found guilty of immoral, dishonest, disorderly or improper conduct, or of wrongfully causing damage to person or property, shall be liable to University discipline.

The following resolution should be noted here: "The Corporation of the University viewing with marked disfavour the organized kidnapping or other proceedings of a violent and objectionable character practised by the students of the First and Second Years at the beginning of the Session, hereby requires the student body to discontinue such practices under severe penalties."

8. If on an occasion of general disorder on the part of a year, class, or group of students, damage be done to University property, or acts committed meriting discipline, and the individuals who have done such damage or committed such acts have not been discovered,

an assessment to cover the damage may be laid, or a fine imposed, or both, on all the members of such year, class or group.

9. While in College, or in the College grounds, students shall conduct themselves in the same orderly manner as in the class-room. Smoking is prohibited in the College buildings, except in such rooms, if any, as may be set apart for that purpose. Any professor observing improper conduct on the part of a student in the College buildings or grounds may admonish him, and, if necessary, report him to the Dean of the Faculty in which he is enrolled. Without, as well as within, the walls of the College, every student is required to maintain a good moral character.

ACADEMIC DRESS

Professors, lecturers and students are required to wear academic dress at lectures, except in those cases in which a dispensation shall have been granted by the Faculty.

Undergraduates shall wear a plain black stuff gown, not falling below the knee, with round sleeve cut above elbow.

Bachelor of Arts.—Black stuff gown, falling down below knee with full sleeve cut to elbow and terminating in a point (similar to that of the Cambridge B.A.); hood, black silk, lined with pale blue silk and edged with white fur.

Bachelor of Science.—The same gown as Bachelors of Arts; hood, black silk, lined with yellow silk and edged with white fur.

Bachelor of Science in Agriculture.—The same gown as Bachelors of Arts; hood, black silk, lined with dark green silk and edged with white fur.

Bachelor of Civil Law.—The same gown as Bachelors of Arts; hood, black silk, lined with French grey silk and edged with white fur.

Bachelor of Laws.—The same gown as Bachelors of Arts; hood, black silk, lined with scarlet silk and edged with white fur.

Bachelor of Architecture.—The same gown as Bachelors of Arts; hood, black silk, lined with white silk and edged with white fur.

Bachelor of Music.—The same gown as Bachelors of Arts; hood, black silk, lined with pale mauve silk and edged with white fur.

Bachelor of Commerce.—The same gown as Bachelors of Arts; hood, black silk, lined with purple silk and edged with white fur.

Master of Arts.—Black gown of stuff or silk, falling below knee, with long sleeve with semi-circular cut at the bottom (similar to that of the Cambridge M.A.); hood, black silk, lined with pale blue silk.

Master of Science—The same gown as Masters of Arts; hood, black silk, lined with yellow silk.

Master of Laws.—The same gown as Masters of Arts; hood, black silk, lined with scarlet silk.

Doctor of Medicine.—The same gown as Masters of Arts; hood, scarlet cloth, lined with dark blue silk.

Doctor of Dental Surgery.—The same gown as Masters of Arts; hood, scarlet cloth, lined with pink silk.

Doctor of Laws.—The same gown as Masters of Arts; hood, scarlet cloth, lined with white silk.

Doctor of Literature.—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale blue silk.

Doctor of Science.—The same gown as Masters of Arts; hood, scarlet cloth, lined with yellow silk.

Doctor of Civil Law.—The same gown as Masters of Arts; hood, scarlet cloth, lined with French grey silk.

Doctor of Music.—The same gown as Masters of Arts; hood, scarlet cloth, lined with mauve silk.

Doctor of Philosophy.—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale green silk.

Doctors of Laws, Doctors of Civil Law, Doctors of Literature, Doctors of Science, Doctors of Philosophy and Doctors of Music shall be entitled to wear for full dress a robe of scarlet cloth (similar in pattern to that of the Cambridge LL.D.), faced with silk of the same colour as the lining of their respective hoods.

All hoods shall be in pattern similar to that of the Masters of Arts of Cambridge University.

Undergraduates and graduates shall wear the ordinary black trencher with black tassel, but Doctors of Laws, Doctors of Civil Law, Doctors of Literature, Doctors of Science, Doctors of Philosophy and Doctors of Music shall wear for full dress a black velvet hat with gold cord, similar to that worn by Doctors of Laws of Cambridge University.

Samples of the colours of the linings of all hoods shall be kept for inspection in the office of the Registrar.

For the information of graduates in Great Britain, it may be stated that the gowns and hoods for the various degrees specified above can be purchased from Messrs. Ede, Son & Ravencroft, 93 and 94 Chancery Lane, London, W.C. 2.

FACULTY OF ARTS

COURSES FOR THE DEGREE OF B.A.

Students may enter the undergraduate course by passing either the junior or the senior matriculation examination. In the former case, in order to obtain the degree of B.A. or B.Sc., they are required to attend regularly the prescribed courses of lectures for four years; in the latter, for three. No course or courses can be counted towards a degree or diploma in the Faculty of Arts except such as have been taken and passed after matriculation requirements have been satisfied and according to the regulations governing the various years of the undergraduate course. Undergraduates are arranged in years, from first to fourth, according to their academic standing. The respective conditions of passing into the last three years of the course are stated on page 139.

The courses in each department shall be of three hours a week each. The third hour, if not needed for lecture purposes, may, with the consent of the department, be used by the instructor for conferences or laboratory work.

An undergraduate may proceed to the degree of B.A. by taking either the general course or one of the Honour Courses.

1. THE GENERAL COURSE FOR THE DEGREE OF B.A.

In the First Year six courses shall be taken, i.e., eighteen hours of class work per week; in the Second Year, five courses (fifteen hours); and in the Third and Fourth Years respectively, four courses (twelve hours).

FIRST YEAR

(*a*) *Compulsory.*

Latin or **Greek.**
English (two hours literature, one hour composition).
Mathematics.
But in the case of students taking three languages (exclusive of English), Mathematics shall not be compulsory.
Physical Education (two hours per week).

(*b*) *Elective:*

Three of the following:—

History.

Greek or **Latin** (if not already taken).

French.

German.

Science (Physics or **Chemistry*** or **Biology).**

Details of the work in each subject are given on pages 145 to 185.

Application to take additional courses must be made to the Dean at the beginning of the session.

Advanced Courses.— A student qualified to take work of a more advanced character than that in the general course of the First Year in any subject, may take such advanced work in that subject as the department concerned may recommend. Students taking advanced courses may be excused from the corresponding general courses on the recommendation of the department.

Advisers.—A Board of First Year student advisers, consisting for the most part of members of the staff teaching First Year subjects shall be appointed each year. The Board shall have an executive committee of five members and the Chairman of the Executive Committee shall be the Chairman of the Board. The members of the Board, the Executive Committee and the Chairman shall be appointed by the Dean.

The number of advisers shall, if possible, be large enough to preclude the possibility of any one of them having more than ten advisees.

At the end of each session a circular letter explaining the adviser system shall be sent to the headmasters of schools from which students are likely to come to McGill. With the letter will also be sent a card which the headmaster and the student should fill out and return to the Registrar. The card will contain such data in regard to the prospective student's record, inclination and interests as will serve to guide his adviser in the choice of subjects for which he will register. On the card the student may enter also the name of the professor whom he wishes to have as his adviser.

All First Year students should interview their advisers at least once a month.

The Board of Advisers shall meet once before Christmas and once before the sessional examinations and at such other times as the Chairman shall determine.

Interim Tests and Probation.—There shall be two regular interim tests for all students of the First Year, the first to be held near the middle of the month of November and the second during the week preceding the mid-Winter vacation. There is no regular

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*A course in high school Physics is a prerequisite for the Chemistry option.

prescribed form of test, but the test shall be as near as possible the equivalent of a standard examination of one hour's duration. All students who in both these tests taken together are below the required standard in more than one-third of their subjects shall be placed on probation for the rest of the academic year. During this period of probation students shall not be allowed to become members of a class or College athletic team or to hold office in any class or College society or to take part in any student activities other than serious studies. All students who are below the required standard in one-half or more of their subjects in both these tests shall be dropped from the University for that year and shall not be allowed to re-enter the University except with the consent of the Faculty. Reports on First Year students who are delinquent in their tests shall be submitted promptly to the Dean's office by the examiners.

SECOND, THIRD AND FOURTH YEARS

Students shall choose three subjects for continued study through the Second, Third and Fourth Years.

These shall be designated the continuation subjects.

In each of the continuation subjects, a full course or two half courses, will be taken each year.

Two of the continuation subjects may be selected from Division I, of the list below, and one from Division II; or two may be selected from Division II and one from Division I.

Division I	Division II	Division III	Division IV
English.	Economics.	Botany.	Education.
French.	History.	Chemistry.	Music.
German.	Mathematics.	Geology.	
Greek.	Philosophy.	Physics.	
Hebrew.	Political Science.	Zoology.	
Latin.	Psychology.		
	Sociology.		

Physical Education is compulsory in the Second Year (two hours per week).

Additional courses, or the equivalent number of half courses, shall be chosen as follows:—

In the Second Year—Two additional full courses;
In the Third Year—One additional full course;
In the Fourth Year—One additional full course.

Of the additional courses two must be taken from Division III, the remaining two may be selected at will from any of the Divisions.

LIST OF COURSES AND PREREQUISITES

Second Year		Third Year		Fourth Year	
Course	Prerequisite	Course	Prerequisite	Course	Prerequisite
DIVISION I.					
English 3, 4	1 and 2				
French 2	1	4, 5, 6, 7	2	4, 5, 6, 7	2
German 5, 6	1 and summer work, or 2	8, 9, 10, 11, 12, 13	5	8, 9, 10, 11, 12, 13	5
4	3				
Greek 2	1				
4	2	5	2 or 4	5	2 or 4
Hebrew 1		2,8	1	2, 8	1
		3	Greek 1	3	Greek 1
		4, 5	Greek 2	4, 5	Greek 2
		6, 11, 13	1	6 (or 11), 12, 13	1
		9		9	
Latin 2	1	3	2	3	2
DIVISION II.					
Economics 1		4, 5	1 or 2 or 3	7, 8, 9, 10	1 or 2, or 3
		6, 7, 8, 9, 10	1 or 2 or 3	11, 12, 15, 16	1 or 2, or 3
History 2	1	3	2	4	3
Mathematics 2, 3, 4	1	2, 3, 4	1	2, 3, 4	1
		5, 6, 7	2 and 3	5, 6, 7	2 and 3
Philosophy 1		2, 4, 6	1	8, 9, 10	7
				2, 4, 5, 6, 7, 8	1
Political Science 2		4	1 or 2 or 3	7, 8, 9	1 or 2, or 3
		7, 8, 9, 10	1 or 2 or 3	12, 13, 14	1 or 2, or 3
Psychology 1		2, 3, 4, etc.	1	2, 3, 4, 5, 9, etc.	1
Sociology 1, 2		2, 4, 7, 10	1	2, 4, 7, 10, 11, 12	1
					1
DIVISION III.		4			
Botany 3	1	5	1, or Zool.	6 8	3
4	1, or Zool. 1	1	3	7	3
Chemistry 1		2		1	
Chemistry 2	1	3	1	2	1
Chemistry 3	2	1	2	3	2
Geology 1		2, 3 and 4		1	
		2	1	2, 3 and 4	1
Physics 2		3, 4			
3	2 (and Math. 1)	5, 6	2 (and Math. 1)	3, 4	2 (and Math. 1)
			3, 4 (and Math. 3.)	5, 6	3, 4 (and Math. 3.)
				7, 8*	5, 6a (and Math. 6.)
Zoology 1		1		1	
2-4	1	2-5, 7	1	2-5, 7	1
DIVISION IV.					
Education		1		2	1
Music 1		1			
		2	1	2	1

*Physics 3, 4 and Math. 6 may be accepted for 8a in the case of honour students in Chemistry.

Details of the work in each subject are given on pages 145 to 185.

Honour lectures are open to candidates for the General degree in the Third and Fourth Years, on the recommendation of the department concerned and with the approval of the Dean.

GENERAL RESTRICTIONS

The selection of continuation subjects or additional courses will be under the following restrictions:—

1. A course intended primarily for First Year students may be counted as a full course in the Second Year.
2. Only those courses may be chosen for which the student has fulfilled the prerequisites laid down by each department.
3. Students are responsible for seeing that courses chosen do not conflict as regards hours of lectures or laboratory periods.

For regulations governing the double courses in Arts and Applied Science, in Arts and Medicine, and in Arts and Dentistry, see pages

SUMMER READINGS

Summer readings are voluntary. The Summer Readings Committee shall, with the aid of the various departments, draw up a list of readings for First Year students each year before the end of the session. This list shall be posted on the notice boards of the Arts Building and the Royal Victoria College and shall be made available for all students who may desire copies.

In regard to Second, Third and Fourth Year General students, advice on summer readings shall be given to them by the heads of the departments in which their continuation subjects are being taken.

Summer readings for Honour students are left in the hands of the departments concerned.

II. HONOUR COURSES FOR THE DEGREE OF B.A.

Honour courses may be elected in any two combined cognate departments or in any single department.

The arrangement of combined honour courses shall be left to the departments interested, and in cases of doubt or disagreement shall be referred to the Faculty for final decision.

In the honour courses in combined departments, when the departments are divided into two sections (as **Classics** into Greek and Latin, **Economics** and **Political Science** into Economics and Political Science), the graduate's certificate shall designate by name the sections in which Honours have been taken (*e.g.*, First Class Honours in Greek, and Second Class Honours in Latin). But in

honour courses in combined departments, when the departments are not divided into sections (as English, History, Sociology, etc.), the graduate's certificate shall indicate that the work done in each of the departments amounts to only half of a full honour course in that department—*e.g.*, First Class Honours in English (one-half) and History (one-half), or First Class Honours in English (one-half) and Second Class Honours in History (one-half).

Subject to the qualifications hereinafter referred to, honour courses may begin in the Second Year. Departments, however, should, whenever possible, have advanced classes or sections for the better students of the First Year.

A Second Year General student who shows exceptional merit in any subject in his Second Year examinations may, if he so wishes and the head of the department is satisfied that his knowledge of the subject is sufficient to enable him to reach the standard of honours by two more years' study, be allowed to take up the honour course in that subject at the beginning of his Third Year.

The conditions for entering honour courses in the Second Year are as follows:—

(a) A student must not have been conditioned in more than one subject at the final spring examinations in the First Year.

(b) The sanction of the Dean and of the head or heads of the departments in which honours are elected must be obtained.

(c) No student shall take honours in a subject in which he has failed to attain at least second class standing in his First Year.

Honour students who fail to attain second rank honour standing at the end of the Second Year shall revert to the General course in their next and following years, unless they obtain special leave to continue their honour work from the department or departments interested in full session.

Honour courses in the Second Year shall consist of 15 hours and in each of the remaining two years 12 hours, covering lectures, conferences and tutorial classes. The work shall also involve wide reading and study in the subject, apart from the actual subjects of lectures, in accordance with a definitely prescribed programme.

Attention is drawn to the fact that lectures will not be given on all parts of the work.

In the Second Year a student registering for honours in one subject only will fulfil the requirement of fifteen hours by taking a

minimum of two courses or six hours in his honour subject and in addition such other courses bringing the total to fifteen hours as the department under which he is studying may direct. A student registering for combined honours in two subjects will fulfil the requirement of fifteen hours by taking two full courses in each honour subject, or twelve hours altogether, and in addition one other course, making a total of fifteen hours, as the two departments concerned may direct. A student who has failed in any such subject in the Third Year examinations shall not be allowed to continue his honour course except with the consent of the Faculty.

Departments shall be at full liberty to recommend their honour students to take one or more courses in cognate departments as the equivalent of courses in their own departments.

A student's whole record during his Second, Third and Fourth Years may be considered in awarding honours at graduation.

Students in honour courses who fail to attain second rank honours at graduation, or who only succeed in attaining second rank honours in one of two combined courses, shall revert to the list of General students.

Honours shall be awarded by the Faculty on the recommendation of the department or departments in which honours are elected.

Honour lectures are open to candidates for the General degree in the Third and Fourth Years, on the recommendation of the department concerned and with the approval of the Dean.

The examinations for honours will not be conducted exclusively by persons who have given the courses.

III. THE GENERAL COURSE FOR THE DEGREE OF B.Sc.

An undergraduate may proceed to the degree of B.Sc. in Arts by taking either of the general courses or an honour course.

There are two general courses, designated respectively A and B.

General Course A

This course has been arranged to give students a thorough training in science as a preliminary to entering a technical business or profession, or for teaching.

First Year

Chemistry 1.
English 1 and 2.
French 13.

German 3.
Mathematics 1.
Physics 1 or 2.

Special arrangements will be made for students who have passed the matriculation examination in German.

Details of the work in each subject are given on pages 145 to 185.

Second Year

In addition to English, four subjects must be taken, of which three must be selected from Group I below; the fourth subject must be taken from Group II.

Third and Fourth Years

Two subjects selected from Group I must be continued in the Third and Fourth Years and two other subjects must be taken.

GROUP I.

SUBJECTS.	SECOND YEAR.	THIRD YEAR.	FOURTH YEAR.
Biology.	Zoology 1. Botany 2.	Zoology 2 *or* 4; *or* Botany 6.	Botany 6 *or* Zoology 2 *or* 4.
Chemistry.	2 *or* 3, and 4.	2 *or* 3, and 9.	5 *or* 6 and 8.
Geology.	1.	5 and 6.	2 and 3.
Mathematics.	2.	3 and 4.	6.
Physics.	2 (*or* 3A, if 2 has been taken).	3A (*or* 3B and 4, if 3A has been taken).	3B and 4 (*or* 5A and 8A; *or* 8A and 9).

GROUP II.

Economics and SUBJECTS.	SECOND YEAR.	THIRD YEAR.	FOURTH YEAR.
Political Science.	1 *or* 2.	Any one of:— 4, 5 and 6, 7 and 8.	Any one of:—4, 5 and 6, 7 and 8, 11 and 12, 13 and 14, not chosen in the Third Year.
Education.			1 and 2.
English.	4, 6, 7 *or* 8	Any one of:— 4 to 11, 15, 18.	Any one not taken in the Third Year, of 4 to 11, 15, 18.
French.	2.	4 *or* 5.	4 *or* 5.
or German.	4 *or* 5.	7 *or* 8.	7 *or* 8.
History.	2.	3.	4.

Philosophy.	1.	Any one of:— 2, 3, 4, 6.	2 *or* 3 *or* 4 *or* 6, whichever has not been taken in the Third Year.
Psychology.	1.	Any full course of 2-14.	Any full course of 2-14 not taken in the Third Year.
Sociology.	1.	2, *or* 3 and 4, *or* 5 and 6.	2, *or* 3 and 4, *or* 5 and 6, any course not taken in the Third Year.

Students selecting Physics, as one of the three subjects of the general B.Sc. course, must also select Mathematics.

Course B

Double Course B.Sc., M.D.

This course in the physical and biological sciences is especially devised for students who might wish to proceed to a degree in Medicine or to advanced work in physiology, biological chemistry, pharmacology or allied subjects.

Graduates in this course are qualified to enter the Second Year in the Faculty of Medicine.

First Year

English 1 and 2.
German 3.
Mathematics 1.
Physics 1.
Chemistry 1.
French 16.

Second Year

German 4 *or* **French 2.**
Physics 2.
Botany 2.
Zoology (as in First Year Medicine).
Chemistry 3.

Third Year

Chemistry 2 and 4.
General Physiology (as in Second Year Medicine).
Physics 3A.
Histology and Embryology (as in Second Year Medicine).
Botany 4.
Zoology 4 and 7.

Fourth Year

Chemistry 7 and 10.
Anatomy (as in Second Year Medicine) *or* **Special Advanced Biology.**
Physiology (as in Third Year Medicine).

IV. HONOUR COURSE FOR THE DEGREE OF B.Sc.

Students proposing to take an honour course must select one principal subject from Group 1 (page 47), in which subject they must have obtained at least high second class standing in the First Year. If the subject chosen for honours is not offered in the First Year, an aggregate standing of high second class must be obtained in all subjects of the First Year.

Students who fail to retain their honour standing will be required either (1) to repeat the year in honours or (2) to repeat the year in the General course or (3) to proceed to the following year, reverting to the General course at the discretion of the B.Sc. Advisory Committee.

The exact courses of study will be specified by the department concerned. All students will be required to take a course in German 4.

V. COURSE IN ENGINEERING PHYSICS

There is an increasing demand for men with an advanced knowledge of Mathematics and Physics, who are capable of conducting investigations of a research character. With a suitable training, openings in this field of work may be found in research laboratories of the Government and of electric corporations, in consulting work, and in University appointments.

In view of these facts, a course in Engineering Physics leading to the degree of B.Sc. in Arts has been arranged. It is open to capable students in Arts or Applied Science:—

1. To students in Arts entering their Third or Fourth Year, provided they have satisfactorily passed in the following prerequisites:—

Mathematics 2, 3, 4.
Physics 1 (*or* 2), 3A, 3B, 4.
Chemistry 1.

2. To students in Applied Science who have completed the Second Year and have received first or second class rank in Mathematics and Physics, subject to the approval of the heads of the departments of Electrical Engineering and Physics.

Third Year

Mathematics 5, 6 (page 166).
Physics 5A, 5B, 6B (*or* **8B**) (page 176).
Electrical Engineering 113, 114 (see page 254).

During their summer vacation at the end of the Second Year, students must spend three months at an approved shop or radio station.

Fourth Year

Mathematics 9 *or* **10** (page 167).
Physics 6A, 7A, 7B, 8A and 8B (*or* **6B**). See pages 176 and 177.
Summer Thesis or Shop Work.

The student may now receive the degree of B.Sc. in Arts, with honours in Mathematics and Physics. In the Fifth Year the student should take a selection of the Fourth Year course for Electrical Engineering. (See page 223) and also Physics 9 and 10, and one of 11, 12, 13, 14, 17, and proceed with research work and a thesis with a view to an M.Sc. degree.

The course must therefore cover five years and may cover six. During the last year (the sixth), opportunity may be afforded to act as demonstrator with a salary.

VI. DEGREE OF B.Sc. IN AGRICULTURE (B.Sc. in Agr.)

A four-year professional course, leading to the degree of Bachelor of Science in Agriculture (B.Sc. in Agr.), designed to prepare students to teach science and agriculture subjects in the academies of the province, is offered by the Faculty of Arts, McGill University, and Macdonald College.

This course is endorsed by the Faculties of Arts, Science and Agriculture of McGill University, and approved by the Protestant Committee of the Council of Public Instruction of the Province of Quebec.

The main object of this course is to improve science teaching, and to provide for a variety of subjects that are at present outside the qualifications of the existing academy teachers.

First Year (at McGill)

English 1 and 2.
Mathematics 1.
French 16.
German 3.
Zoology 1.
Botany 1.
Chemistry 1.
Education 1.

Second Year (at McGill)

English 4.
French 2.
Botany 3.
Zoology 2.
Chemistry 2.

Third and Fourth Years (at Macdonald College)

The work of the Third and Fourth Years of this course is taken at Macdonald College. For a detailed statement of the studies included therein, write to the Principal, Macdonald College, Que.

VII. DEGREE OF BACHELOR OF HOUSEHOLD SCIENCE (B.H.S.)

The first two years are to be taken in the Faculty of Arts of McGill University (or of any other University provided similar courses are studied), and the last two in the School of Household Science of Macdonald College, but the Dean, or the B.A. Advisory Committee of the Faculty of Arts of McGill University, must pronounce on the qualifications of a candidate before he or she can be admitted to the Third Year of this course.

The two years in the Faculty of Arts may be either in the B.A. or the B.Sc. course as follows:—

B.A. Course—First Year

Greek 1 *or* **2,** *or* **Latin 1.**
English 1 and 2.
***Mathematics 1.**
Chemistry 1.

And any two of the following:

History 1.
Latin 1, *or* **Greek 1** *or* **2.**
(if not already taken.)
French 1.
German 1 *or* **2.**

Second Year

Students shall choose two subjects out of Division I and one out of Division II; or two out of Division II and one out of Division I. In addition they must take two other subjects. One of these must be Chemistry. The other may be chosen from any of the divisions.

Division I	Division II	Division III	Division IV
Greek.	History.	Botany.	Education.
Latin.	Philosophy.	Chemistry.	Music.
English.	Economics.	Geology.	
French.	Pol. Science.	Physics.	
German.	Sociology.	Zoology.	
Hebrew.	Mathematics.		
	Psychology.		

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*If three languages (exclusive of English) are taken, Mathematics may be omitted.

B.Sc. Course—First Year

Chemistry 1.
English 1 and 2.
French 16.
German 3.
Mathematics 1.
Physics 1 *or* 2.

Second Year

English *or* French *or* German.
Biology (Botany 1 and Zoology 1); Chemistry 2.
And one course from among the following: Geology 1; Mathematics 2; Physics 2 *or* 3A; Economics 1 *or* 2; English 4; History 2; Philosophy 1; Psychology 1; Sociology 1.

Third Year (at Macdonald College)

Bacteriology 4.
Biology 2.
Chemistry 5.
Economics 2.
English 2.
Foods 2, 6.
Principles of Teaching 1.
Textiles and Clothing 4.
The Home 1, 2.

Fourth Year (at Macdonald College)

Bacteriology 5, 6.
Chemistry 6.
Dietetics 2, 3.
English 3.
Physics 3.
Principles of Teaching 2.
The Institution 3.

For details of the work in each course, see Macdonald College Announcement.

PARTIAL STUDENTS

A limited number of partial students may be admitted to study each year in the Faculty of Arts. Partial students before registration must satisfy the Dean and the head of the department or departments which they propose to enter of their ability to follow the course or courses they select, and they must fulfil all the requirements of classroom work and tests prescribed for regular students in these courses. Candidates will not be permitted to enter as partial students who have unsuccessfully attempted the Matriculation examinations unless they have made an exceptionally high mark in the subject or subjects which they intend to select. Subject to the above limitations, lectures are open to partial students in both honour and general classes, but no course or courses taken by any such students can count for a degree except by virtue of a special vote of the Faculty. Medals, scholarships, exhibitions and prizes shall not be awarded to partial students. A certificate of any partial student's standing may be obtained at any time from the Dean if requested.

LIMITED UNDERGRADUATES

Students who have matriculated, but who for special reasons are not able to follow the regular curriculum of four years, may, if those reasons appear satisfactory to the Dean, be accorded the status of Limited Undergraduates. Such Limited Undergraduates may distribute their work for the degree over five, but not over more than eight years, on the understanding that the sequence and arrangement of courses shall follow the requirements laid down in the regular undergraduate curriculum, and shall conform to the time-table.

Limited Undergraduates will not be eligible for honour courses, scholarships, exhibitions, bursaries or prizes of any description. For fees, see page 108.

MID-SESSIONAL EXAMINATIONS

Except as hereinafter provided by this rule, all University mid-sessional examinations in courses of study conducted throughout the whole academic year are discontinued. Nothing in this rule, however, shall be understood to preclude the members of the teaching staff from giving such interim tests or examinations as they may think requisite from time to time. The final examinations in all half courses ending at mid-session may be held at mid-session as at present or during the final examination period in the Spring, at the option of each department interested. Any department desiring University accommodation for mid-sessional examinations in courses completed at the end of the first half term must so apply to the Dean not later than the first day of January.

Examinations supplemental to final examinations are held in the month of September simultaneously with the matriculation examination. No examination will be granted at any other time, except by special permission of the Faculty, and on payment of a fee of ten dollars.

DISTINCTION IN A GENERAL DEGREE

Students of exceptional merit in the General course will be awarded distinction at graduation in two classes, viz., Great Distinction and Distinction, and these awards will be made upon the student's record during his Second, Third and Fourth Years.

ADVANCEMENT FROM YEAR TO YEAR

Advancement to the Second Year.—A student may proceed to the Second Year with any one full course (or its equivalent) unpassed.

Advancement to the Third Year.—A student may proceed to the Third Year with any one full course (or its equivalent) unpassed, unless that full course (or any part of it) belongs to the First Year.

Advancement to the Fourth Year.—A student may proceed to the Fourth Year with any one full course (or its equivalent) unpassed, unless that full course (or its equivalent) belongs to the Second Year of his course.

Repeating a Year.—By special permission of the Faculty, a student who is required to repeat a Year may, on application:—

(a) Be exempted from attending lectures and passing examinations in the subjects in which he has already passed;

(b) Be permitted to take, in addition to the subjects in which he has failed, one of the subjects of the following Year in his course.

N.B.—The choice of subjects must involve no conflict of hours as printed in the time-table.

DOUBLE COURSES

I. ARTS AND APPLIED SCIENCE

Candidates for the degrees of B.A. and B.Sc. (Applied Science) in six years will take the first three years in Arts. They will then enter the Faculty of Applied Science and devote the remaining three years entirely to the work of that Faculty. Only students in good standing will be permitted to take the course. Those who wish to do so must notify the Dean of the Faculty of Applied Science before the close of their First Year in Arts (May).

Descriptive Geometry, Freehand Drawing and Mechanical Drawing.—Not later than October 10th of their Second Year in Arts students intending to enter this course must see the heads of the departments concerned and make arrangements with them for procuring private instruction in these subjects. They must report to them from time to time, and after they have given evidence of having covered the ground adequately they will be given an examination.

Shop-work.—The shop-work may be taken in two periods of two weeks each in successive years in the second half of May *immediately after* the close of the Arts examinations.

Surveying.—One-half of their surveying field work may be done in the fortnight *immediately after* the completion of their Third Year; the rest of it in the latter part of the following September in connection with the Survey School then held for Fourth Year Civil Engineering students. In some cases it may be possible to do the whole of the survey field work in September in the School mentioned above. Students desiring to do this should apply to the Dean of the Faculty of Applied Science not later than the 1st of May.

The requirements for each of the three years in the Faculty of Arts are as follows:—

First Year

The curriculum as laid down for the B.A. degree, except that Physics and Mathematics and a modern language must be taken.

Second Year

French 2 *or* **German 5** (both continuation subjects).
Mathematics 2 and 4A.
Physics 3B and 4.

And two of the following:—

Economics 1.
English 4, 6, 7 *or* **8.**
French 2 (if not already taken).
German 5 (if not already taken).
Greek 2 *or* **4.**
History 2.
Latin 2.
Philosophy 1.
Political Science 3.
Psychology 1.

Third Year

Physics 2.

And three of the following:—

English, any one of 4 to 11 inclusive, 15, 18; Latin 4; French 4; German 7; Philosophy 2 *or* **4** *or* **6; Psychology, any full course, 2-14; History 3** *or* **4; Economics and Political Science 4 to 16** (any full course *or* the equivalent of a full course).

The degree of B.A. will be conferred on double course students in Arts and Applied Science on the completion of the prescribed curriculum in Arts and the requirements of the Second Year in Applied Science.

II. ARTS AND ARCHITECTURE

Candidates for the degrees of Bachelor of Arts and Bachelor of Architecture will take the first three years in Arts to be followed by four in Architecture, omitting the First Year.

Students entering Arts by senior matriculation will not be exempted from the operation of this rule. The student must also choose at least two subjects for continued study during his three years in this Faculty. These subjects shall be designated continuation subjects and in each of them at least one full course or two half courses must be taken each year. The following are recommended as suitable continuation subjects, viz., Mathematics, Latin, English, History.

Students who wish to take this double course must notify the Dean of the Faculty of Applied Science before the close of their First Year in Arts.

Not later than October 10th, of their Second Year in Arts, students intending to take this course must make arrangements with

the head of the Architectural Department for procuring private instruction in Freehand Drawing, Architectural Drawing, and Architectural Geometry. They will be required to report from time to time as to their progress and pass an examination in these subjects before entering the course in Architecture.

The degree of B.A. will be conferred on the completion of the prescribed curriculum in Arts and the Second Year in Architecture.

III. ARTS AND MEDICINE

The degrees of B.A. and M.D. may be obtained in eight years, of which the first three shall be taken in the Faculty of Arts and the remaining five in the Faculty of Medicine. The course in Arts is as follows:—

(1) B.A., M.D.

First Year

The subjects of the First Year shall be the same as those for the First Year of the B.A. course, with Physics, compulsory.

Second Year

Chemistry 1 and any four subjects of the Second Year of the B.A. course.

Third Year

Chemistry 2 and **Biology** and any three subjects of the Third Year of the B.A. course.

The degree of B.A. will be conferred on the completion of the above curriculum in Arts and of the First Year in Medicine.

(2) B.Sc., M.D.

For the requirements of the B.Sc., M.D., course see page 134.

IV. ARTS AND DENTISTRY

Requirements for the double course leading to the degrees of B.A. and D.D.S. are now under consideration and will be announced in due course.

V. ARTS AND COMMERCE

Graduates in Commerce may obtain the B.A. degree by one or more additional years of residential study in Arts provided always that during their whole course of study they have satisfied all the regular requirements for the B.A. degree.

VI. ARTS AND THEOLOGY

Students who are pursuing a double course in Arts and Divinity (six years at least) will take in the Third and Fourth Years the courses which constitute the ordinary curriculum in Arts, less a half course in each of these Years, or a whole course in either. They may also select one instead of two sciences in Division III of the General course, provided always that they have already taken a science subject in the First Year.

COURSES OF LECTURES IN ARTS

The hours of all General lectures and most of the Honour lectures are indicated. In the case of the other Honour lectures the hours will be arranged by the several departments at the opening of the session.

DEPARTMENT OF BOTANY

PROFESSOR:—FRANCIS ERNEST LLOYD.
PROFESSOR OF MORPHOLOGICAL BOTANY:—CARRIE M. DERICK.
ASSISTANT PROFESSOR:—GEORGE W. SCARTH.
LECTURER:— ————————.

1. **General Botany.** Introductory Course. First Year
2 hrs., 2nd term; Wed., Fri., at 2..2 hrs. lab.; Mon. 2-4.
Professor Lloyd, Mr. Scarth, and ————.
(Taken with Zoology 1 as 1st year Biology.)

2. **General Biology (Plants).** Parts I (October) and III (March to April) as in First Year Medicine.
3 hrs.; Tu., Th., Sat., at 12..6 hrs. lab.
(Mornings, alternating with Chemistry I.)
Professor Lloyd, Mr. Scarth.

3. **Plant Morphology and Taxonomy.** Second Year.
3 hrs.; Tu., Th., Sat., at 9..4 hrs. lab.
Professor Derick, and ————————.

4. **Evolution and Genetics.** Second or Third Year.
2 hrs.; Mon., Wed., Fri., at 9..2 hrs. lab.
(May be taken without laboratory work.)
Professor Derick, and ————————.

5. **Histology: Microtechnic.** Second or Third Year.
3 hrs.; Mon., Wed., Fri., at 2..4 hrs. lab.
Professor Lloyd, and ————————.

6. **Introductory General Physiology.** Third or Fourth Year Arts, Second Year Medicine.
3 hrs., 1st term; Mon., Wed., Fri., at 9..4 hrs. lab.
Professor Lloyd, Mr. Scarth, and ————————.

Note:—Courses 6 and 8 constitute plant physiology for one session.

7. **Plant Pathology.** Fourth Year.
3 hrs ; Mon., Wed., Fri., at 2..4 hrs. lab.
Professor Derick, and ————————

8. **Plant Physiology: Problems.** Third or Fourth Year Arts. 2nd term.
3 hrs. reading..4 hrs. lab.....Professor Lloyd, Mr. Scarth.
Note:—Courses 6 and 8 constitute plant physiology for one session.

9. **Pharmaceutical Botany.** 2 hrs.....

10. **Taxonomy: Method.**
A short course in April on request.

Honour Course in Biology

Prerequisites: Botany 1 and Zoology 1M; *or* Botany 2 and Zoology 1, together with Chemistry 1 *or* Physics 1.

Second Year: Botany 3 and 4 (with laboratory work); Zoology 2; Physics 1, *or* Chemistry 1.

Third Year: Botany 5 and 6; Zoology 3 and 6.

Fourth Year: Botany 7 and 8; Zoology 4 and 5.

Honour students should acquire a reading knowledge of scientific French and German. For Genetics and Physiology an elementary knowledge of statistical methods is advised.

DEPARTMENT OF CHEMISTRY

Director:—R. F. Ruttan.
Professor of Inorganic Chemistry:—F. M. G. Johnson.
Professor of Physical Chemistry:—Otto Maass.
Professor of Organic Chemistry:—G. S. Whitby.
Associate Professor:—N. N. Evans.

Assistant Professors:—
W. H. Hatcher.
A. R. McLean.

Demonstrators:—
G. W. Holden.
E. W. R. Steacie.
K. W. Hunten.
W. M. Barnes.
A. B. A. Evans.
G. L. Matheson.
V. Sivertz.
C. R. West.
H. P. Stockwell.

(Unless otherwise specified, all lectures and laboratory courses are given in the Chemistry Building.)

1. **General Chemistry.**
3 hrs.; Mon., Wed., Fri.
Section A—Professor Ruttan and Professor Hatcher at 12.
Section B—Associate Professor Evans at 2.
4 hrs. lab., Tu., Th., 3 to 5.
Assistant Professor MacLean and Messrs. Holden and Sivertz.
Text-books:—Alex. Smith, General Chemistry for Colleges, new edition; Smith's Intermediate Chemistry; Macpherson and Henderson, General Chemistry.

2. **Organic Chemistry** (No. 56 Fac. App. Sci.). Pre-medical, Second Year.
3 hrs., 1st term; Tu., Th., Sat., at 12.....Professor Ruttan.
2 hrs., 2nd term; Th. and Sat., at 12.....Professor Ruttan.
6 hrs. lab., 2nd term. Professor Whitby, Assistant Professor MacLean, and Messrs. Evans, Matheson and Holden.
6 hrs. lab., 2nd term. (Biological Building.)
Professors Ruttan and Demonstrators.
Text-books:—Remsen or Perkin and Kipping; Norris' Experimental Organic; Moureu's Organic Chemistry.

3. **Analytical Chemistry.**
(a) Qualitative Analysis.
2 hrs., 1st term; 6 hrs. lab.
Associate Professor Evans and Messrs. Hunten, Holden and West.
Text-book:—Stieglitz, Qualitative Analysis; W. A. Noyes, Qualitative Analysis.
(b) Quantitative Analysis.
1 hr., 2nd term; 12 hrs. lab.
Professor Johnson and Messrs. Steacie and Hunten.
Text-book:—Cumming and Kay, Quantitative Analysis.

4. **Elementary Physical Chemistry** (No. 58 Fac. App. Sci.).
2 hrs., sess.; Mon., Fri., at 12.....Professor Maass.
Text-book:—Walker, Introduction to Physical Chemistry.

*5. **Organic Chemistry (Advanced)** (No. 64 and 65 Fac. App. Sci.)
3 hrs.; Mon., Wed., Fri., at 10.....Professor Whitby.
12 hrs. lab.
Professor Ruttan, Professor Whitby, Assistant Professor MacLean, and Messrs. Holden, Evans and Matheson.

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*Courses for Graduates and Honour Students.

*6. **Inorganic Chemistry (Advanced)** (No. 72 Fac. App. Sci.).
3 hrs.; Tu., Th., Sat., at 11.....Professor Johnson.

*7. **Physical Chemistry (Advanced)** (No. 66 Fac. App. Sci.).
2 hrs.; Wed., Fri., at 9.....Professor Maass.
6 hrs. lab.; Mon., Wed., 2 to 5.
Professor Maass and Dr. Morrison.

*8. **Quantitative Analysis (Advanced)** (No. 62 Fac. App. Sci.).
1 hr.....Professor Johnson and Messrs. Steacie and Hunten.
12 hrs. lab.

9. **Historical Chemistry** (No. 74 Fac. App. Sci.).
1 hr., 2nd term.....Professor Hatcher.

10. **Organic and Biological Chemistry.**
2 hrs., 2nd term; Th. and Sat., at 12.
(Biological Building.).....Professor Ruttan
6 hrs. lab., 2nd term; Tu. and Fri., 2 to 5.
(Biological Building.)
Professor Ruttan.

Text-book:—Remsen and Special Synopses.

11. **Electro-Chemistry** (No. 70 Fac. App. Sci.).
2 hrs., 1st term; Mon., at 9, Fri., at 12.....Professor Maass.

12. **Food Chemistry** (No. 73 Fac. App. Sci.).
1 hr., 2nd term; Th., at 10.....Professor Ruttan.
6 hrs. lab., 2nd term.
Professor Whitby and Assistant Professor MacLean and Messrs. Evans, Holden and Matheson.

Text-book:—Woodman's Food Analysis.

13. **Industrial Inorganic Chemistry** (No. 68 Fac. App. Sci.).
2 hrs., 1st term; Wed., Fri., at 11.....Professor Johnson.

14. **Industrial Organic Chemistry** (No. 69 Fac. App. Sci.).
2 hrs., 2nd term; Wed., Fri., at 11.
Professor Ruttan and Associated Experts.

*15. **Colloid Chemistry** (No. 75 Fac. App. Sci.).
2 hrs., 2nd term, with lab.....Professor Johnson.

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*Courses for Graduates and Honour Students.

Honour Course in Chemistry

Second Year: Chemistry 1.

Third Year: 2, 3, 4; Physics 2; and a half-course in Calculus or Biology or Geology or Mineralogy or scientific German.

Fourth Year: (a) 5, 7, 9, 10, or (b) 6, 7, 8, 9; Physics 3 (a).

Honour Course in Chemistry and Biology

Prerequisites: French 13; German 3; Physics 1.

Second Year: Chemistry 1; Botany 2; Zoology 1; French 2 and German 4.

Third Year: Either Physics 2 or French 4 or German 7 and Chemistry 2 (first term only), 3 (a) and 10; Zoology 2; Botany 3 or 6.

Fourth Year: A full course in Physics or Biology or advanced Chemistry and Chemistry 3 (b), 15; Zoology 4; Botany 5.

DEPARTMENT OF CLASSICS

Professor:—W. D. Woodhead.

Professor of Greek:—Samuel B. Slack.

Assistant Professors:—Alexander M. Thompson. Clive H. Carruthers.

Sessional Lecturer and Tutor (Royal Victoria College):—Elizabeth A. Irwin.

Greek

All students taking Greek are expected to provide themselves with a grammar, a Greek-English dictionary, a classical dictionary, and an atlas of ancient geography. The following are recommended: Goodwin's Greek Grammar (Ginn & Co.); Liddell and Scott's Greek Lexicon (abridged or intermediate); Putzger's Historischer Schulatlas (Velhagen und Klasing, Leipzig); Smith's Smaller Classical Dictionary (Everyman Series, Dent).

1. Beginners' Greek.

3 hrs.; Section 1 (men); Tu., Th., Sat., at 10.
Assistant Professor Carruthers.

Section 2 (women); Tu., Th., Sat., at 10.....Professor Slack.

Text-books:—Burgess and Bonner (Scott, Foresman & Co.); A Greek Reader for Schools (Freeman and Lowe, Clarendon Press).

2. Greek. First and Second Years.

3 hrs.; Mon., Wed., Fri., at 11...Assistant Professor Thompson.

Xenophon, Anabasis I and IV (Goodwin and White, Ginn & Co.); Homer, Iliad VI (Leaf and Bayfield, Macmillan's Elementary Classics); Translation at sight.

4. Greek. Second Year.

3 hrs.; Tu., Th., Sat., at 11.....Assistant Professor Carruthers.

Plato, Apology (Adam, Cambridge University Press); Homer, Odyssey VI (Bain, Ginn & Co.); Euripides, Alcestis (Blakeney, Bell's Illustrated Classics); Translation at sight (Jerram, Anglice Reddenda, Second Series, Oxford University Press).

5. Greek. Third and Fourth Years. Prerequisite: 2 or 4.

3 hrs. (Hours to be arranged).....Professor Slack.

Thucydides VII (Marchant, Macmillan); Demosthenes, On the Peace, Philippic II, Chersonese, Philippic III (Sandys, Macmillan); Aristophanes, Equites (Merry, Clarendon Press); Translation at sight (Fowler, Sportella).

HONOUR COURSE IN GREEK.

This will consist of 2 *or* 4, and 5, and the following:—

11. Greek. Second Year.

3 hrs.; Tu., Th., Sat., at 9.....Professor Slack.

Homer, Odyssey X, XI (Pitt Press Series, Cambridge University Press); Sophocles, Ajax (Pearson, Cambridge University Press); Lucian, Menippus (Mackie, Pitt Press Series, Cambridge University Press); Greek Prose Composition and Sight Translation.

12. Greek. Third and Fourth Years.

3 hrs.; Tu., Th., Sat., at 11.....Professor Woodhead.

Plato, Republic I, II as far as 367 E (Warren, Republic I-V, Macmillan); Theocritus (Kynaston, Oxford University Press); Sophocles, Oedipus Rex (Cambridge University Press, 6/-); Translation at sight; Greek Prose Composition.

Latin

All students taking Latin are expected to provide themselves with a grammar, a Latin-English dictionary, a classical dictionary, and an atlas of ancient geography. The following are recommended:—New Latin Grammar (Allen and Greenough, Ginn & Co.); Lewis, School Dictionary, or White, Junior Students' Latin-English Dictionary; Smith, Smaller Classical Dictionary (Everyman Series, Dent).

The following books are also recommended: Roman History, Literature and Antiquities, by A. Petrie (Oxford University Press); Putzger's Historischer Schulatlas (Velhagen and Klasing, Leipzig).

1. Latin. First Year.

3 hrs.; Mon., Wed., Fri., at 10.

Section 1 (men), Professor Woodhead; section (2) men, Assistant Professor Thompson; section 3 (women), Assistant Professor Carruthers; section 4 (women), Professor Slack.

Petrie, Latin Reader, with Introduction to Roman History (Oxford, Clarendon Press); North and Hillard, Latin Prose Composition (Rivingtons); Translation at sight.

2. Latin. Second Year.

3 hrs.; Tu., Th., Sat., at 12.....Assistant Professor Thompson.

Sallust, Catiline (Summers, Pitt Press); Horace, Selected Odes (Wickham, Clarendon Press); Virgil, Aeneid IV (Stephenson, Macmillan's Elementary Classics); Translation at sight (Jerram, Anglice Reddenda, Second Series, Oxford University Press).

3. Latin. Third and Fourth Years.

3 hrs.; Tu., Th., Sat., at 9.....Professor Woodhead.

Pliny, Selected Letters (Westcott, Allyn and Bacon); Lucretius V, 783-1457 (Lowe, Clarendon Press); Martial (Post, Ginn & Co.); Translation at sight (Alford, Macmillan).

5. Latin.

Professor Slack.

At the beginning of the second term, if not before, an advanced class will be formed to prepare for Second and Third Year Scholarships. This class will be open to qualified students of the first two years.

HONOUR COURSE IN LATIN

This will consist of 2 and 3, and the following:—

11. Latin. Second Year.

3 hrs.; Mon., Wed., Fri., at 9....Assistant Professor Carruthers.

Cicero, Philippic II (Peskett, Pitt Press); Catullus (Macmillan, Clarendon Press); Lectures on Roman Literature; The Writers of Rome (J. Wight Duff, Oxford Clarendon Press); Latin Prose Composition.

12. Latin. Third and Fourth Years.

3 hrs.; Mon., Wed., Fri., at 9....Assistant Professor Thompson.

Juvenal I, III, V, VII, VIII, X (Wilson, D. C. Heath); Seneca, Select Letters (Summers, Macmillan).

HONOUR COURSE IN CLASSICS

Greek: 2 *or* **4, 5, 11, 12.**
Latin: 2, 3, 11, 12.

GRADUATE COURSE IN CLASSICS

See page 421.

DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE

PROFESSOR:—STEPHEN LEACOCK.

ASSOCIATE PROFESSORS:— J. C. HEMMEON. J. P. DAY.

ASSISTANT PROFESSOR:—JOHN C. FARTHING.

SESSIONAL LECTURER:—W. GOFORTH.

GRADUATE FELLOW:—J. H. BLUMENSTEIN (1924-25).

1. **Elements of Political Economy (General Economics).** Second Year. This course is open to Arts Students and to Commerce Students.
   3 hrs.; Mon., Wed., Fri., at 11.
   Professor Leacock and Associate Professor Hemmeon.
2. **Elements of Political Economy (Social Economics).** This course is open to Theological Students proceeding to a degree in Arts, to students in the School for Social Workers and to partial students. Second Year.
   Mon., Wed., Fri., at 11.
   Professor Leacock, Associate Professor Hemmeon and Assistant Professor Farthing.
3. **Elements of Political Science.** Second Year.
   3 hrs.; Mon., Wed., Fri., at 12.
   Professor Leacock and Associate Professor Hemmeon.
4. **Political and Social Theories of Modern Times.** Third Year.
   3 hrs.; Mon., Wed., Fri., at 2.....Professor Leacock.
5. **Labor Problems.** Third Year.
   3 hrs.; 1st term: Tu., Th., Sat., at 12.
   Associate Professor Hemmeon.
6. **Money and Banking and Statistics.** Third Year.
   3 hrs., 2nd term: Mon., Wed., Fri., at 10.
   Associate Professor Day.
7. **Canada: Industrial and Economic Problems.** Third and Fourth Years.
   3 hrs., 1st term, in alternate years. Given in 1925-26.
   Tu., Th., Sat., at 11.....Associate Professor Hemmeon.
8. **The Government of Canada.** Third and Fourth Years.
   3 hrs., 2nd term, in alternate years. Given in 1925-26.
   Mon., Wed., Fri., at 3.....Professor Leacock.
9. **Political Economy till 1776.** Third and Fourth Years.
   3 hrs., 1st term, in alternate years. Given in 1926-27.
   Tu., Th., Sat., at 11.....Associate Professor Hemmeon.

10. **Political Economy from 1776.** Third and Fourth Years.
3 hrs., 2nd term, in alternate years. Given in 1926-27.
Mon., Wed., Fri., at 3.....Professor Leacock.

11. **International Trade, Trade Policy and Transportation.** Fourth Year.
1st term, Mon., Wed., Fri., at 10....Associate Professor Day.

12. **Public Finance.** Fourth Year.
3 hrs., 2nd term, Tu., Th., Sat., at 12..Associate Prof. Hemmeon.

13. **Social and Industrial Legislation.** Fourth Year and Graduate Students.
3 hrs., 1st term, in alternate years. Given in 1925-26.
Mon., Wed., Fri., at 12.....Assistant Professor Farthing

14. **Great Britain: Economic and Fiscal Problems.** Fourth Year and Graduate Students.
3 hrs., 2nd term, in alternate years. Given in 1925-26.
Mon., Wed., Fri., at 12.....Associate Professor Day.

15. **Economic Factors in the Evolution of Society (till 1800).** Fourth Year and Graduate Students.
3 hrs., 1st term, in alternate years. Given in 1926-27.
Mon., Wed., Fri., at 12.....Assistant Professor Farthing.

16. **Economic Factors in the Evolution of Society (after 1800).** Fourth Year and Graduate Students.
3 hrs., 2nd term, in alternate years. Given in 1926-27.
Mon., Wed., Fri., at 12.....Associate Professor Day

17. **Development of Public Policy in Canada, 1867-1897. Parliamentary Debates and Contemporary Documents.** Graduates and Senior Students in Commerce (by permission).
3 hrs., 1st term.
Mon., Wed., Fri., at 3.....Professor Leacock.

18. **Development of Public Policy in Canada, 1867-1897. Parliamentary Debates and Contemporary Documents.** Graduates and Senior Students in Commerce (by permission).
3 hrs., 2nd term.
Tu., Th., Sat., at 10.....Professor Hemmeon.

For the courses in Economics and Political Science given in the School of Commerce, see page 203.

Honour Course.

Students taking the full honour course in Economics and Political Science take in their Second Year courses 1 and 2, together with three other courses as approved by the Department; and in their Third and Fourth Years the courses indicated above, together with one approved course from another department in each year.

Students taking honour courses in the whole or in half of another department (see page 44) may be granted honours in Economics (without Political Science) by taking courses 1, 3, 5, 6, 11, 13 *or* 15 and either 7 and 8 *or* 9 and 10; similarly, students taking honour courses in the whole or in half of another department may be granted honours in Political Science (without Economics) by taking courses 1, 3, 4, 12, 14 *or* 16 and either 7 and 8 *or* 9 and 10.

GRADUATE COURSES.

See page 422.

DEPARTMENT OF EDUCATION

DEAN OF THE SCHOOL FOR TEACHERS, MACDONALD COLLEGE, AND PROFESSOR OF EDUCATION:—SINCLAIR LAIRD.

1. **Principles of Education; Psychology of Education; History of Education.**
   3 hrs., 1st term; Mon., Wed., Fri., at 5.
   (To be taken in the Third Year.)
   This course is a prerequisite for Course 2, and for the Course in Practical Teaching.

2. **(1) Methods of Teaching.**
   A. Principles of general method.
   B. Special methods in elementary subjects.
   C. Special methods in High School subjects.

   (2) School and Class Management.
   A. School administration, and school law and regulations of the Province of Quebec.
   B. Class management and discipline.
   3 hrs., 2nd term; Mon., Wed., Fri., at 5.
   (To be taken in the Fourth Year.)

Courses 1 and 2 are required for the High School Diploma of the Province of Quebec, together with (a) fifty half-days of practice teaching and criticism lessons under expert supervision; and (b) special courses in methods of teaching French, music and drawing.

THE TRAINING OF TEACHERS

THE HIGH SCHOOL DIPLOMA

The Protestant Central Board of Examiners of the Province of Quebec have laid down the following requirements for the High School Diploma:—

1. Graduation from some Canadian or other British University, with degree courses that are considered by the Central Board satisfactory preparation for the work of the teacher.

2. The successful completion of courses 1 and 2 in the Department of Education.

3. Successful completion of special courses in methods of teaching French, music and drawing. These courses are held in Montreal High School on Tuesday afternoons throughout the session. Fee $15.00, payable to Bursar, McGill University.

4. Successful completion of at least fifty half-days of practice teaching and criticism lessons under expert supervision (unless the candidate holds an intermediate diploma or shows an equivalent in successful teaching experience which would be accepted by the Central Board).

The course in Practice Teaching is at present divided into two parts. The first part is taken in September preceding the Fourth Year. Education Course I is a prerequisite. The second part of the course in Practice Teaching is taken in May and June after the Fourth Year Examinations.

Candidates for this, the highest teaching diploma of the Province, are required to take courses 1 and 2 in the Department of Education during the last two years of their undergraduate course, Course 1 in the Third Year and Course 2 in the Fourth Year.

ELEMENTARY, INTERMEDIATE AND KINDERGARTEN DIPLOMAS.

The training for these diplomas is given at Macdonald College. (See Macdonald College Announcement.)

COURSES FOR TEACHERS OF SPECIAL SUBJECTS

French. A summer school for teachers of French leading to a Specialist Diploma recognized by the Council of Public Instruction.

Kindergarten Assistants. A two-session course held in Montreal and leading to a Kindergarten Assistant's Diploma, according to the regulations of the Protestant Committee of the Council of Public Instruction. This diploma is accepted for entrance to the Kindergarten class at Macdonald College. (The course is conducted by the School for Teachers, Macdonald College.)

Particulars of the above courses, which are published separately, may be obtained on application to the Registrar.

Physical Education. A two-years' course leading to a diploma for Teachers in Physical Education recognized by the Council of Public Instruction. (This course is given under the Department of Physical Education.)

DEPARTMENT OF ENGLISH

PROFESSOR OF ENGLISH:—CYRUS MACMILLAN.

ASSOCIATE PROFESSOR:—GEORGE W. LATHAM.

ASSISTANT PROFESSORS:—
- HAROLD G. FILES.
- F. W. BAXTER.
- ————————.

ASSISTANTS:—
- A. R. MCBAIN.
- MISS M. C. EDWARDS.
- MISS ALICE SHARPLES.
- T. F. M. NEWTON.
- JEAN GURD.
- PHYLLIS MURRAY.

1. **English Composition.**
   Sat. at 12.....
   Assistant Professor ————————, Miss Edwards, Miss Sharples, Mr. Newton, ————————.
   Assistant Professor Files will have the general direction of this course. Section and weekly conference hours to be arranged.
2. **English Literature.**
   General Course from Anglo-Saxon times to the present day.
   Tu., Th., and, at the pleasure of the instructor, Sat., at 12.
   Professor Macmillan and Assistants.
   Weekly conference hours to be arranged. Mr. McBain will have the general direction of the tutorial conferences.
3. **English Composition.**
   Half course. An advanced course open to a limited number of students who desire more practice in writing after having completed English 1.
   Hours to be arranged.....Assistant Professor Files.
4. **English Literature of the Nineteenth Century.**
   Mon., Wed., Fri., at 3.....Associate Professor Latham.
   Open to Second Year students.
5. **Spenser and Milton.**
   Half course, 2nd term. Mon., Wed., Fri., at 9.....
   (Omitted in 1925-26.).....Associate Professor Latham.
6. **Shakespere (Six Plays).**
   Mon., Wed., Fri., at 10.....Professor Macmillan.
   May be taken in two successive years.
7. **English Literature from the Restoration to 1798.**
   Tu., Th., Sat., at 10.....Assistant Professor Files.
   Open to Second Year students.

8. **Argumentation, Debating, and the Forms of Public Address.**
Tu., 3 to 5; conference hours to be arranged.....
Associate Professor Latham, Assistant Professor ————— and Assistants.
The attendance in this course is limited to 40 men. Omitted in 1925-26.

9. **English Poets of the Nineteenth Century.**
Mon., Wed., Fri., at 11.....Professor Macmillan
(Omitted in 1925-26. Given in 1926-27.)

10. **The English Novel, from Richardson to the Present Time.**
Tu., Th., Sat., at 11.....Assistant Professor Files.

11. **The English Drama, 1590-1642.**
Mon., Wed., Fri., at 11.....Professor Macmillan.
(Given in 1925-26. Omitted in 1926-27.)

12. **Anglo-Saxon; Anglo-Saxon Poetry and Introduction to English Philology.**
Mon., Wed., Fri., at 2.....Associate Professor Latham.

13. **Studies in Later Seventeenth Century English Literature.**
Half course, 1st term.
Tu., Th., Sat., at 12.....Assistant Professor Baxter.

14. **Chaucer.**
Half course, 1st term; Mon. Wed., Fri., at 9.
(Omitted in 1925-26.).....Associate Professor Latham.

15. **American and Canadian Literature.**
Half course, 2nd term.
Mon., Wed., Fri., at 12.....Professor Macmillan and Associate Professor Latham
(Given in 1925-26. Omitted in 1926-27.)

16. **Comparative Literature.**
The influence of English Literature upon the continent of Europe in the 18th and 19th centuries.
Half course, 2nd term; Mon., Wed., Fri., at 12.....
Assistant Professor —————.

17. **Comparative Literature.**
The Literary Relations of France and England in the 16th and 17th centuries.
Half course, 1st term; Mon., Wed., Fri., at 12.....
Assistant Professor —————.

18. The English Bible.

Tu., Th., Sat., at 9.....Professors ———— and ————
Omitted in 1925-26.

19. English Literature, exclusive of the Drama, from Tottel's Miscellany, Seventeenth century until the Restoration.

Mon., Wed., Fri., at 12.....Assistant Professor Baxter.

20. Early English: English Literature from 1200 to 1450.

Mon., Wed., Fri., at 9.....Associate Professor Latham.
Open only to students who have taken course 12 or its equivalent.

Honour Course

Second Year:—Two courses selected from 4, 6, 7, 8, 15, 18, 19.

Third Year:—Four courses.

Fourth Year:—Four courses not taken in the Third Year. Courses 5, 6, 12, 14, and 20 are compulsory for Honours.

English Requirements for the Honour Courses in English and Latin, English and French, and English and German.

Second Year:—Consult the Head of the Department.

Third Year:—Any courses aggregating six hours a week, including 12, chosen from 4 to 20, not previously taken.

Fourth Year:—Any courses aggregating six hours a week, including 12, chosen from 4 to 20, not previously taken. (Course 12, and one course selected from 5, 14, and 20 are compulsory.)

English Requirements for the Honour Courses in English and Other Subjects

Second Year:—Consult the Head of the Department.

Third Year:—Courses aggregating six hours, chosen from 4 to 20, not previously taken.

Fourth Year:—Any courses aggregating six hours chosen from 4 to 20, not previously taken. (One course selected from 5, 12, 14, and 20 is compulsory.)

Graduate Courses.

See page 424.

DEPARTMENT OF GEOLOGY AND MINERALOGY

PROFESSOR:—J. AUSTEN BANCROFT (absent on leave).

ASSOCIATE PROFESSOR OF MINERALOGY:—R. P. D. GRAHAM (Acting Head of Department).

ASSISTANT PROFESSOR OF GEOLOGY:—JOHN J. O'NEILL.

ASSISTANT PROFESSOR OF PALÆONTOLOGY:—T. H. CLARK.

LEROY FELLOW IN GEOLOGY:—D. H. ELLIS.

1. **General Geology.** (Applied Science 141, in part.)
   3 hrs.; Mon., Wed., Fri., at 9.....Professors Bancroft and Clark.
   Excursions on Saturday mornings for five or six weeks after term opens. On their discontinuance, 1 hr. lab. Students taking this course will be excused from any classes which conflict with the excursions.
   Text-Book:—Cleland, Geology, Physical and Historical.
2. **Physiography.** (Not given during the session 1925-1926.)
   2 hrs., Tu., Th., at 12.....Professor Bancroft.
   Prerequisite:—1.
3. **Historical Geology (Advanced).** (Applied Science 152.)
   1 hr.; Mon., at 12, and 1 lab. period in 2nd term on Mon., 2 to 5. Prerequisite:—1.....Assistant Professor Clark.
4. **Canadian Geology.** (Applied Science 149.)
   1 hr., 1st term; Wed., at 11.....Professor Bancroft.
5. **Mineralogy.** (Applied Science 142.)
   2 hrs.; Tu. and Th. at 9.....Associate Professor Graham.
6. **Determinative Mineralogy.** (Applied Science 143.)
   2 lab. periods of 3 hrs. each during the first term.
   Associate Professor Graham.
7. **Economic Geology.** (Applied Science 148.)
   1 hr., 1st term; Th., at 11.....Professor Bancroft.
8. **Ore Deposits.** (Applied Science 148.)
   4 hrs.; 2nd term.....Professor Bancroft.
9. **Optical Mineralogy and Crystallography.**
   2 lab. periods, 1st term.
   Hours to be arranged.....Associate Professor Graham.
10. **Petrography.** (Applied Science 147.)
    1 hr.; 1st term; 1 lab. (3 hrs.) sess.
    Professor Bancroft, Associate Professor Graham, and Assistant Professor O'Neill.
11. **Advanced Petrography.**
    Laboratory work—all hours to be arranged.
    Associate Professor Graham and Assistant Professor O'Neill.

12. **Palæontology.**
2 hrs.; 3 hrs. lab. All hours to be arranged..Asst. Professor Clark.

13. **Geological Colloquium.**
One hour per week (to be arranged).

HONOUR COURSE

Second Year:—Geology 1, 5 and 6; Zoology 1; Botany 2; Chemistry 1; English 4.
Third Year:—Geology 2, 3, 4, 9, 10; Chemistry 3.
Fourth Year:—Geology 7, 8, 11, 12, 13; Botany 4 and Zoology 7.

GRADUATE COURSES

See page 426.

DEPARTMENT OF GERMANIC LANGUAGES

PROFESSOR:—H. WALTER.
ASSOCIATE PROFESSOR:—E. T. LAMBERT.
LECTURER:—MISS B. MEYER.

1. **German Language.** (Beginners' B.A. Course.)
3 hrs.; Tu., Th., Sat., at 9.
Prof. Walter, Associate Prof. Lambert, Miss Meyer.
Texts:—Van der Smissen und Fraser, High School German Grammar (Copp, Clark Co.); Guerber, Märchen und Erzählungen, Vol. I (Heath); Nichols, Easy German Reader (Holt).

Students intending to proceed to Section A of course 5 are required to study during the summer the following texts: Hauff, Der Zwerg Nase (Heath); Moser, Der Bibliothekar (Heath); Schrakamp, Ernstes und Heiteres (A.B.Co.); Carrington & Holzwarth, German Composition (Heath).

2. **German Language.**
3 hrs.; Tu., Th., Sat., at 10.....Miss Meyer.
Texts:—Van der Smissen und Fraser, High School German Grammar (Copp, Clark Co.); Hauff, Die Karavane (Holt); Keller, Kleider machen Leute (Heath); Fulda, Talisman (Holt); Collmann, Easy German Poetry (Ginn, Ed. 1913); Carrington & Holzwarth, German Composition (Heath).
Private Readings:
Baumbach, Waldnovellen (Heath); Riehl, Burg Neideck (Am. B.Co.).

3. **German.** (Beginners' B.Sc. Course.)
3 hrs.; Tu., Th., Sat., at 10.....Associate Professor Lambert

Texts:—Greenfield's Brief Summary of German Grammar (Heath); Guerber's Märchen und Erzählungen, Vol. I. (Heath); Gore's German Science Reader (Heath).

4. German Science Reading Course. Second Year.

3 hrs.; Mon., Wed., Fri., at 5.....Associate Professor Lambert.

A course in reading Science German is given for students who have matriculated in this language or have taken it in the First Year.

Texts:—Gore's German Science Reader (Heath) and another to be chosen later.

5. German Language. Second Year.

This course will be taught in two sections, A and B. Those who have taken course 2 and those who have completed course 1 and the additional summer work (see under course 1) will make up section A; all others will attend section B.

Section A: 3 hrs.; Mon., Wed., Fri., at 11....

Professor Walter and Miss Meyer.

Texts:—Harris, German Composition (Heath); Keller, Romeo und Julia auf dem Dorfe (Holt); Fontane; Grete Minde (Holt); Schiller, Wilhelm Tell (Holt).

Private Readings:

Riehl, Der Fluch der Schönheit (Heath); Storm, Immensee (Ginn).

Section B: 3 hrs.; Mon., Wed., Fri., at 10....

Professor Walter and Miss Meyer.

Texts:—Van der Smissen, German Grammar; Harris, German Composition (Heath); Hauff, Das Wirtshaus im Spessart (MacMillan); Chamisso, Peter Schlemihl (Heath); Schiller, Maria Stuart (Holt).

6. German Language, Commerce Course. Students will receive one hour's instruction in Commercial German and will take two hours in course 5.

7. German Language. Second Year. Honour Course.

3 hrs.; Mon., Wed., Fri., at 12.....Associate Professor Lambert.

Texts:—Wiehr, German Composition (Oxford); Lessing, Minna von Barnhelm; Goethe, Hermann und Dorothea (Ginn); Scheffel, Trompeter von Säkkingen (Heath); Biedermann, Deutsche Bildungs Zuständeim 18 Jh. (Holt), or selections from Nichol's Modern German Reader (Holt).

Private Readings:

Heine, Harzreise (Ginn); Goethe, Sesenheim (Holt).

No student who in his First Year took German 1 can proceed to Honours unless he has completed the summer work as given under course 1.

Honour students in German are strongly recommended to take, in their Second or Third Year, as one of their general courses, course 1 of the Department of Philosophy (Logic and Introduction to Philosophy).

N.B.—In order to be admitted to the following courses of the Third and Fourth Years a student must know German well enough to take lectures delivered in German and express himself in German with some degree of fluency and correctness.

8. German Literature (Nineteenth Century).

3 hrs.; Mon., Wed., Fri., at 9 (given in 1926-27), Professor Walter.

Texts:—Kleist, Prinz Friedrich von Homburg (Ginn); Grillparzer, Sappho (Ginn); Hebbel, Agnes Bernauer; Heine, Prose (Oxford Univ. Press); Heine, Verse; Hautpmann, Die versunkene Glocke; Keller, Sieben Legenden; History of Literature, Nineteenth Century (Kluge). Prose Composition.

9. German Literature (Eighteenth Century).

3 hrs.; Mon., Wed., Fri., (given in 1925-26)....Professor Walter.

Texts:—Lessing, Emilia Galotti (Ginn); Lessing, Hamburgische Dramaturgie; Goethe, Iphigenie (Pitt Press); Schiller, Wallenstein; Kluge, Geschichte der deutschen Literatur. Prose Composition: Mutschmann, Passages for translation into German (Oxford Univ. Press).

HONOUR COURSES

10. Mediæval German Literature and Philology.

(Given in 1926-27.)

1 hr.; Mon., at 4.....Associate Professor Lambert.

Texts:—Bachmann, Mittelhochdeutsches Lesebuch (Fæsi und Beer, Zürich); Behaghel; Die Deutsche Sprache (Freytag, Leipzig).

11. Entwicklung der deutschen Lyrik.....Professor Walter.

1 hr. (Given in 1926-27.)

12. Geschichte des deutschen Trauerspiels.....Professor Walter.

2 hrs. (Given in 1925-26.)

13. Der deutsche Roman in seinen Hauptvertretern.

1 hr. (Given in 1926-27.).....Professor Walter.

14. Composition.

1 hr.

15. Gothic and Introduction to Germanic Philology.

1 hr.....Professor Latham.

16. German Reading Course.

2 hrs.; Tu., Th., at 4.....Professor Walter.

Intended for Honour students of the Third and Fourth Years and graduate students in other Departments of the Faculty of Arts. No preliminary knowledge of German is required.

The German language alone is used in class instruction in courses 2-13, and, in order to obtain honours, candidates must be able to speak German fluently.

GRADUATE COURSES

See page 427.

DEPARTMENT OF HISTORY

PROFESSORS:— BASIL WILLIAMS. C. E. FRYER. W. T. WAUGH.

READERS:— T. W. L. MACDERMOT. F. R. SCOTT.

COURSES FOR GENERAL COURSE STUDENTS

1. **General History from Origins to the Break-up of the Roman Empire.** First Year.
   3 hrs.; Tu., Th., Sat., at 11.....Professors Williams and Waugh.
2. **British and European History, 45—1603 A.D.** Second Year.
   3 hrs.; Mon., Wed., Fri., at 9.....Professor Fryer.
3. **British and European History, 1603 to the Present Day.** Third Year.
   3 hrs.; Mon., Wed., Fri., at 11.....Mr. MacDermot.
4. **History of Canada and the United States.** Fourth Year.
   3 hrs.; Mon., Wed., Fri., at 11...Professors Williams and Fryer.

COURSES SPECIALLY FOR HONOUR STUDENTS

Prerequisite:—History 1.

5. **Mediæval Institutions.** Second Year.
   3 hrs.; Tu., Th., Sat., at 10.....Professor Waugh.
6. **English Constitutional History.** Third and Fourth Years.
   (Omitted in 1925-26.) Professor Waugh.
7. **European History, 1603-1784.** Third Year.
   3 hrs.; Mon., Wed., Fri., at 12.....Professor Williams.
8. **European History, 1784 to the present day.** Fourth Year.
   3 hrs.; Tu., Th., Sat., at 9.....Professor Fryer.
9. **European Colonization and Expansion.** Third and Fourth Years.
   3 hrs.; Mon., Wed., Fri., at 10.....Professor Williams.

Special Subjects:—

The Age of Chaucer and Wycliffe.
The Russo-Turkish War and Treaty of Berlin.
The Anglo-French Entente of 1904.
Roman Law.
A Period or Aspect of Ancient History.
Federal Constitutions in the British Empire.

NOTE.—A choice of one of these special subjects for continuous study by honour students during their Third and Fourth Years will be made in consultation with the Head of the Department.

Students taking Honours in History will take the following courses in 1925-26:—

Second Year: History 2 and 5.
Economics 2.
Approved courses in French *or* German *and* in Latin *or* German.

Third Year: History 7 and 9.
An approved course in Economics, Latin, French *or* German. One of special subjects in History.

Fourth Year: History 4, 8 and 9.
Continuation of special subject begun in 1924-25.

Students taking Honours in History and another subject will take the following courses in History in 1925-26:—

History Courses:—

Second Year: History 2 and 5.

Third Year: History 7 and 9.

Fourth Year: History 8 and 4, *or,* if approved, 9.

NOTE.—In addition to the examinations on the subjects taken up in the last year, Fourth Year honour students will have a general examination paper on the history studied by them in their four years.

GRADUATE COURSE

See page 428.

Further particulars of these courses and text-books recommended will be found in the separate bulletin issued by the History Department.

DEPARTMENT OF MATHEMATICS

PROFESSORS:— D. A. MURRAY (*Chairman*). C. T. SULLIVAN.

ASSOCIATE PROFESSOR:—A. H. S. GILLSON.

ASSISTANT PROFESSORS:— T. H. MATTHEWS. H. TATE. W. L. G. WILLIAMS.

1. **Mathematics.** (For First Year students.)
Geometry and Trigonometry, 3 hrs., 1st term.
Algebra, 3 hrs., 2nd term.
Four Sections: Messrs. Gillson, Matthews (two sections), Murray.

Shortly after the beginning of the session a section will be formed of the more advanced students in Mathematics. About mid-year the sections will be rearranged and a section formed of the students who have obtained good class standing in the Mathematics of the first part of the session.

Text-books:—Hall and Knight, Elementary Trigonometry; Carslaw, Plane Trigonometry; Hall and Stevens, School Geometry, Parts I-VI; Hall's School Algebra, Parts I, II; Bottomley, Logarithmic Tables.

A knowledge of the subject matter of course 1 is a prerequisite to course 2 or 3.

2. **Modern Geometry, Trigonometry and Algebra.** (For Second Year and other qualified students.)
3 hrs.; Mon., Wed., Fri., at 10....Assistant Professor Matthews.

Text-books:—Carslaw's Plane Trigonometry; Godfrey and Siddon's Modern Geometry; Hall and Knight, Higher Algebra.

3. **Analytical Geometry and Calculus.** (An elementary course for Second Year and other qualified students.)
3 hrs.; Tu., Th., Sat., at 12.....Professor Murray.

Text-books:—C. Smith, Conic Sections; Murray, Differential and Integral Calculus.

A knowledge of the subject matter of courses 2 and 3 is a prerequisite for either of courses 5 and 6.

Students in Arts who wish to prepare themselves for advanced courses in Mathematics or for advanced courses in Physics or for work in actuarial science (see courses 7, 9, below), are strongly advised to take both courses 2 and 3 in their Second Year.

Students who enter the honour course in Mathematics in their Third Year are required to have taken in their Second Year Mathematics 2, 3, and either Mathematics 4 and Physics 4, or Mathematics 2 of Commerce.

Students who enter the honour course in Mathematics and Physics in the Third Year are required to have taken in their Second Year Mathematics 2, 3, 4 and Physics 3, 4.

Students who intend to go into actuarial work should note that a knowledge of Mathematics 2 of Commerce is a prerequisite for course 9.

4. **Spherical Trigonometry and Astronomy.** (For Second Year and other qualified students.)

Spherical Trigonometry; 1 hr., 1st term.
Assistant Professor Matthews.

Astronomy:—2 hrs., 2nd term.....Associate Professor Gillson.

Text-books:—Murray, Spherical Trigonometry; Barlow and Bryan, Astronomy (London University Tutorial Press); Moulton's Astronomy.

Spherical Trigonometry may be taken separately from Astronomy by students taking the double course in Arts and Applied Science.

This course can be combined with Physics 4 to form a three-hour course for the year.

5. **Analytical Geometry of Three Dimensions; Curve Tracing.** (For Third Year and other qualified students.)

3 hrs. sess.....Professor Sullivan.

Text-books:—C. Smith's Solid Geometry; R. T. J. Bell, Geometry of Three Dimensions.

6. **Infinitesimal Calculus and Differential Equations.** (For Third Year and other qualified students.)

3 hrs. sess.....Associate Professor Gillson.

Text-books:—Lamb, Infinitesimal Calculus; Forsyth, Differential Equations (Macmillan); Piaggio, Differential Equations (Bell).

7. **Finite Differences and Certain Series.** (For Third Year and other qualified students.)

3 hrs. sess.....Assistant Professor Tate.

Text-books:—Henry, Calculus and Probability; Fine, College Algebra.

A good knowledge of courses 2 and 3 is a prerequisite to course 7.

8. **Theory of Equations.** (For Third Year and other qualified students.)

3 hrs. sess.....Assistant Professor Williams.

Fundamental theorems of analysis used in the Theory of Equations; numerical solution of equations; determinants; properties of symmetric functions and their application in the Theory of Equations; recent contributions to the theory.

Text-books:—Burnside and Panton; Dickson.

9. Theory of Life Contingencies. (For Fourth Year and other qualified students.)

3 hrs. sess.....Assistant Professor Tate.

Course 7 and a knowledge of Mathematics 2 of Commerce is a prerequisite to course 9.

Text-books:—Spurgeon, Institute of Actuaries' Text-book; Buel, Probability.

Courses 7 and 9 are mainly planned for students who intend to enter on actuarial work, and are designed as an aid to those who may proceed later to the examinations of the Institute of Actuaries.

10. Introduction to the Theory of Functions of a Real Variable. (for Fourth Year and other qualified students.)

3 hrs. sess.....Professor Sullivan.

Text-books:—Hardy, Course in Pure Mathematics (Camb. Univ. Press); Carslaw, Introduction to Fourier's Series and Integrals (Macmillan); Byerly, Fourier Series and Spherical Harmonics.

11. Introduction to the Theory of Functions of a Complex Variable. (For Fourth Year and other qualified students.)

3 hrs. sess.....Associate Professor Gillson.

Text-books:—MacRobert, Functions of a Complex Variable; Whittaker and Watson, Modern Analysis; Appell and Lacour, Fonctions Elliptiques (Gauthier-Villars).

12. Modern Higher Algebra. (For Fourth Year and other qualified students.)

3 hrs. sess.....Dr. Williams.

Properties of polynomials; matrices; algebraic invariants, etc.

Text-book:—Bôcher, Introduction to Modern Higher Algebra.

Each year courses 5, 6, 10, 11, will be given, and those of the remaining courses will be given for which a sufficient number of students present themselves.

For Courses in Commerce open to students in Arts, see Announcement of the School of Commerce.

Honour Course in Mathematics

Prerequisites:—High standing in Mathematics 1; Physics 1 or 2, Mathematics 2, 3, and either Mathematics 4 and Physics 4, or Mathematics 2 of Commerce.

Third Year:—Courses 5, 6, 7 or 8, and a fourth full course (in any subject) approved by the department.

Fourth Year:—Course 10 and at least two of courses 8, 9, 11, 12, and a fourth full course (in any subject) approved by the department.

Honour Course in Mathematics and Physics

Prerequisites:—High standing in Mathematics 1; Physics 1 or 2.

Second Year:—Mathematics 2, 3, 4; Physics 3, 4. (Chemistry and English recommended as other subjects to be chosen.)

Third Year:—Mathematics 5, 6; Physics 5, 6.

Fourth Year:—Mathematics 10, 11; Physics 7, 8.

Graduate Courses in Mathematics

See page 429.

DEPARTMENT OF MUSIC

Professor:—H. C. Perrin.

Prerequisites:—

(a) Evidence of having passed at least the Intermediate Grade of the McGill Local Examinations in pianoforte or organ, or, in the case of a vocalist or violinist, evidence of sufficient ability to play pianoforte accompaniments of moderate difficulty. In every case there will be an additional preliminary ear test and also a sight reading test at the keyboard.

(b) Evidence of having passed the Junior Grade of the McGill Local Examinations in theoretical music.

1. (a) Musical dictation and ear training, rhythm and sound studied separately and together (stimulation of musical perception); acquaintance with the compass and use of orchestral instruments.

1 hr.

(b) History of Music from 1650 to 1850, combined with analytical study of works by composers from Corelli and Scarlatti to Beethoven, embracing the suite, lied, rondo, sonata, overture, quartet, fugue, concerto.

2 hrs.

Text-books:—Scientific Basis of Music, Stone (No. 11, Novello's Music Primers); Musical Dictation, Parts I and II, Ritter (Nos. 29 and 30, Novello's Primers); Harmony and Ear Training, W. A. White (Silver, Burdett & Co.); Form in Music, Macpherson (Williams); History of Music, Baltzel, Theodore Presser & Co., Philadelphia); Studies in Phrasing and Form, Macpherson (Williams).

For Collateral Reading:—Studies of the Great Composers, Parry (Routledge); Beethoven and His Forerunners, D. G. Mason (Macmillan); Listener's Guide to Music, P. A. Scholes (Oxford University Press); How to Appreciate Music, Kobb (Sisley's Ltd.).

2. (a) Analytical Harmony in continuation of the previous year. 1 hr.

(b) History during the first part of the session, the early period, *i.e.*, before 1650, and during the second part of the session, the period from the beginning of the 19th century to the present day. 1 hr.

(c) Study of composition (in continuation of (b) in previous year); comparison of styles, discussion of symphony, symphonic poem, dramatic music; discussion of principles of art and their application to music, especially as regards such points as unity, variety, contrast, proportion, symmetry and progress; the literature of music and literature on the subject of music.

Text-books:—Musical Dictation, Part II, Ritter (No. 30, Novello's Primers); Harmony and Ear Training, W. A. White (Silver, Burdett & Co.); Art of Listening to and Appreciation of Good Music, Dickinson (Scribner); Form in Music, Macpherson (Williams); History of Music, Baltzell (Theo. Presser & Co., Philadelphia); History of Music, Stanford-Forsyth (Macmillan).

For Collateral Reading:—Genesis of Art, Raymond; Philosophy of the Beautiful, Knight; Various Articles in Grove's Dictionary; Evolution of Harmony, Kitson (Clarendon Press); Sonata Form, No. 54, Novello's Primers; Art of Music, Parry; Naumann's History of Music; Threshold of Music, Wallace; From Greig to Brahms, D. G. Mason (Macmillan); The Romantic Composers, D. G. Mason (Macmillan); Phases of Modern Music, L. Gilman (J. Lane).

DEPARTMENT OF ORIENTAL (SEMITIC) LANGUAGES

PROFESSORS:— C. A. BRODIE BROCKWELL. A. R. GORDON.

ASSISTANT PROFESSOR:—G. ABBOTT-SMITH.

LECTURER:—W. C. GRAHAM.

1. **Hebrew Grammar, Composition, and Selected Biblical Texts.** 3 hrs.; Mon., Wed., Fri., at 12.....Professor Brockwell.

2. **Hebrew (Selected Biblical Texts).** 2 hrs.; Tu., Th., at 9.....Mr. Graham. Prerequisite:—1.

3. **Literature of the Jewish Hellenists; (Greek) Texts.**
3 hrs.; Mon., Wed., Fri., at 2..Assistant Professor Abbott-Smith.
Prerequisite:—Greek 1.

4. **Grammar and Syntax of Jewish Hellenistic Texts.**
1 hr.; Tu., at 12.....Assistant Professor Abbott-Smith.
Prerequisite:—Greek 2.

5. **The Critical Value of Hellenistic Translation Texts.**
1 hr.; Wed., at 2.....Assistant Professor Abbot-Smith.
Prerequisite:—Greek 2.

6. **Hebrew Texts corresponding to Hellenistic Texts of 3.**
1 hr.; Mon., at 3.....Professor Gordon.
Prerequisite:—1.

7. **Biblical Texts:** An exegetical course.
3 hrs.; Mon., Wed., Fri.....Professor Gordon.
Prerequisite:—1 and 2, or 1 and an equivalent of 2.

8. **Hebrew Texts: Biblical and post-Biblical.**
3 hrs.; Mon., Wed., Fri., at 9..Professors Brockwell and Gordon.
Prerequisite:—1.

9. **Arabic, and either Aramaic or Syriac, or Phoenician, or Ethiopic, or Transliterated Assyrian Texts.**
3 hrs.; Mon., Wed., Fri., at 10.....
Professor Brockwell and Mr. Graham.

10. **Hebrew and Semitic Social Customs, Codes, and Institutions.**
3 hrs.; Mon., Wed., Fri., at 11.....Professor Brockwell.

11. **Hebrew History to the Age of the Mishnah.**
1 hr.; Fri., at 3.....Professor Gordon.

12. **Semitic Epigraphy, including the History of the Alphabet.**
1 hr.; Tu., at 12.....Professor Brockwell.

13. **Hebrew Grammar, Syntax and Composition.**
1 hr.; Th., at 12.....Professor Brockwell.
This course may be taken with two of the hours either of 8 or 9.

14. **Semitic Comparative Philology.**
1 hr.; Tu., at 11.....Professor Brockwell.

Honour Course

Prerequisite:—Hebrew 1.
Second Year:—Consult the Head of the Department.
Third Year:—8, 9, 10, 11 (*or* 5), 12, 13.
Fourth Year:—8, 9, 10, 5 (*or* 6, *or* 7, *or* 11), 12, 14.

Courses for the M.A. and Ph.D. Degrees

See page 434.

DEPARTMENT OF PHILOSOPHY

PROFESSORS:— { W. CALDWELL. / IRA A. MACKAY.

1. **Logic and Introduction to Philosophy.**
   3 hrs.; Tu., Th., Sat., at 10.....Professor MacKay.

2. **Moral Philosophy.**
   3 hrs.; Mon., Wed., Fri., at 12.....Professor Caldwell.

3. **Greek Philosophy.**
   3 hrs.....Professor Caldwell.

4. **History of Modern Philosophy.**
   3 hrs.; Mon., Wed., Fri., at 4...Professors Caldwell and MacKay.

For Undergraduates and Graduates

5. **Advanced Moral Philosophy.**
   3 hrs.....Professor Caldwell.

6. **Theory of Knowledge and Metaphysics.**
   3 hrs.....Professor MacKay.

7. **Main Currents of Recent Philosophy.**
   3 hrs.....Professors Caldwell and MacKay.

8. **The Critical Philosophy of Kant.**
   Lectures, Reading and Papers.
   3 hrs.....Professor Caldwell or Professor MacKay.

HONOUR COURSE

Second Year:—Course I and Psychology 1.

Third Year:—Any four full courses from 2 to 8, of which course 2 must be one. Another course in Psychology may also be prescribed either in this year or the next.

Fourth Year:—Four full courses from 2 to 8 other than those selected in the Third Year. In addition, a full course in any of the following subjects:—Education, History, Psychology, Economics, English Literature, Physics, Physiology, Zoology.

The Philosophy requirements for honours in Philosophy and English, Philosophy and German, and Philosophy and Psychology are six hours selected from 2 to 8 in each of the Third and Fourth Years.

GRADUATE COURSE FOR M.A. DEGREE

See page 437.

DEPARTMENT OF PHYSICAL EDUCATION

DIRECTOR, DEPARTMENT OF PHYSICAL EDUCATION:—ARTHUR S. LAMB.

UNIVERSITY MEDICAL OFFICER:—F. W. HARVEY.

ATHLETIC MANAGER:—MAJOR D. S. FORBES.

TRACK COACH AND ASSISTANT PHYSICAL DIRECTOR:—F. M. VAN WAGNER.

RUGBY AND HOCKEY COACH:—F. J. SHAUGHNESSY.

ASSISTANT PHYSICAL DIRECTOR:—HAY FINLAY.

PHYSICAL DIRECTOR FOR WOMEN:—ETHEL M. CARTWRIGHT.

ASSISTANT PHYSICAL DIRECTOR FOR WOMEN:—RUTH HARVEY.

ASSISTANT PHYSICAL DIRECTOR FOR WOMEN:—ETHEL WAIN.

FOR MEN

In order to promote as far as possible the physical welfare of the student body, every student, coming to the University for the first time, will be required to pass a physical examination to be conducted by, or under the direction of, the Director of the Department of Physical Education, or by a recognized representative. Students of the Second Year, as well as those of all years who wish to engage in athletic activities, are also required to be physically examined. The hours for this examination will be announced at registration. As a result of this examination each student will be placed in one or other of the following categories.

(*a*) Fit for all forms of physical exercise.

(*b*) Fit for a limited number of forms.

(*c*) Fit for gymnasium work only.

(*d*) Fit for remedial gymnastics or temporarily unfit.

(*e*) Unfit for any form of physical exercise.

At the same time he will be asked to fill in a card indicating his choice of physical activity, which he will be allowed to follow, unless debarred for medical reasons, under which circumstances he will be given a further choice among other recognized but less strenuous forms of exercise or will do gymnasium work as the case may require.

Physical education is compulsory for all students of the first two years. Two periods per week will be devoted to it.

Any student participating in competitive athletics may be excused from other forms of exercise during the season of training, providing that this is performed to the satisfaction of the Director.

Unexcused absences up to one-eighth of the required number of periods shall be allowed. Unexcused absences exceeding one-eighth,

but not exceeding one-fourth, may be allowed if at the end of the session the student passes a special examination and satisfies the Director that he has made sufficient progress. Unexcused absences exceeding one-fourth shall disqualify a student. Such students shall be required to take extra gymnasium class work to the satisfaction of the Director, a supplemental course being given in the month of September for this purpose.

At regular intervals during each session and also at the end of each session, the Director of Physical Education shall furnish the Dean of the Faculty with a list of students who have failed to meet the attendance requirements as laid down in the ordinary curriculum, or who have proved unsatisfactory in other respects, and such cases shall be dealt with by the Faculty.

No student in default shall be allowed to proceed to the next year of his course unless for special reasons exemption should be granted on the recommendation of the Faculty and approved by the Committee on Physical Education.

Not less than one month before the conferring of degrees in each session, the Director shall furnish to the Registrar of the University, for transmission to Corporation and the Faculty, a list of all students, being candidates for degrees at the forthcoming Convocation, who have failed to satisfy the requirements of the Committee on Physical Education, and no Diploma for a degree shall be issued to any such candidate unless by the express direction of Corporation.

Provision is made by the Department for the care of the health of undergraduate students during the session. Hospital accommodation, when requisitioned for by the Department, is provided, without cost to the student, for seven days only, except under special circumstances. A leaflet concerning this service and the general work of the Department, together with the requirements in physical education for all students, will be distributed at the opening of the session.

FOR WOMEN

Every student on entering the University is required to pass a physical examination.

The physical education offered to undergraduate students includes educational, remedial and recreative gymnastics.

The educational gymnastics are based on anatomical and physiological laws; the exercises aim at producing the highest degree of health in each individual, thus contributing to mental as well as to physical efficiency. The course of exercise, which is progressive throughout each session, encourages the harmonious development of

the nervous and muscular system, and provides a remedy for incorrect habits of sitting, standing and walking. A remedial gymnastic course is prescribed for undergraduate students who are physically unfit for ordinary class work.

Work in the Physical Education Department, amounting to 140 hours during the four years' course, is required of all undergraduate students in the Faculty of Arts. The requirement is two hours per week for the first two years in the Faculty of Music. The periods are used for instruction in personal hygiene and for educational, remedial and recreative gymnastics, according to the physical requirements of the individual. Attention is given in the senior years to the subject of health problems. No student is asked to do work unsuited to her physique and students debarred from exercise of any kind are dealt with separately and carefully advised.

The Physical Director for Women arranges all regulations regarding necessary attendance and the substituting of recreative for educational gymnastics.

In all cases of absence the student is required to report to the Physical Director for Women. The ordinary interpretation of the one-eighth rule concerning absences does not apply in this Department. Every student is required to wear the costume recommended by the Department.

Recreative gymnastics in the form of basket ball, tennis, ice-hockey, fancy skating and athletic sports, are organized by the Athletic Association, under the supervision of the Department of Physical Education. All students are examined by the Medical Officer, and the Physical Director for Women, and are required to pass satisfactory physical tests before taking part in any of these activities.

Students of Music in residence are also required to attend educational gymnastic classes. Educational and recreative gymnastics are open to all partial students on payment of a fee of $5.00 for a class of two periods a week.

Strathcona Prizes are offered in this Department under the conditions stated under the Department of Physical Education.

Provision is made by the Department for the care of the health of women undergraduate students during the University session.

A leaflet giving information concerning instruction and concerning the health scheme will be supplied to all students at the opening of the session.

DEPARTMENT OF PHYSICS

DIRECTOR:—A. S. EVE.

PROFESSORS:—H. T. BARNES. L. V. KING.

ASSOCIATE PROFESSORS:—A. N. SHAW. A. H. S. GILLSON.

ASSISTANT PROFESSORS:—H. E. REILLEY. D. A. KEYS. E. S. BIELER. J. S. FOSTER.

DEMONSTRATORS:—R. J. CLARK (on leave). M. CROWE. N. CAM. A. V. DOUGLAS. B. PRIESTMAN. M. HOME. F. G. ADNEY. C. GLIDDON. A. L. TURNER.

INSTRUCTOR IN LABORATORY TECHNIQUE:—MR. H. T. PYE.

1. General Course.
(Applied Science 44, Lab. 45.)
3 hrs., Wed. and Fri., at 2; lab., Mon., 2-4, or Th., 4-6.
Assistant Professor Reilley.

Text-books:—Kimball's College Physics (Holt); Laboratory Manuscripts (Renouf Publishing Co.).

1M. Physics for Medical and Dental Students.
2 hrs., Tu., Th., at 3; 4 hrs. lab., Tu., 4-6; and Fri., 3-5.
Assistant Professor Reilley.

Text-books:—Duff's Text-book on Physics (Blakiston); Laboratory Manuscripts (Renouf Publishing Co.). *Reference books:*—Daniell's Text-book on Medical Physics (Macmillan); Jones, Electricity and Magnetism (Lewis).

2. Heat, Sound and Light. (Applied Science 311, Lab. 312.)
3 hrs., Tu., Th., Sat., at 11; 2 hrs. lab., Mon. or Fri., 11-1, or Wed., 2-4.
Associate Professor Shaw.

Text-books:—Duncan and Starling's Heat, Light and Sound (Macmillan); Laboratory Manuscripts (Renouf Publishing Co.).

3A. Electricity and Magnetism. (Applied Science 315, Lab. 316.)
2 hrs., Mon., Fri., at 11; 2 hrs. lab., Tu. or Th., 2-4.
Professor Eve.

Text-books:—Duncan and Starling's Electricity and Magnetism (Macmillan); Laboratory Manuscripts (Renouf Publishing Co.).

3B. Statics and Hydrostatics.

1 hr., Wed., at 11.....Professor Eve.

Text-book:—Loney's Statics and Dynamics (C.U.P.).

4. Dynamics.

2 hrs., 1st term; 1 hr., 2nd term. (A half course combined with Mathematics 4 to form a three-hour unit.) Tu., Th., Sat., at 9.
Assistant Professor Foster.

Text-book:—Loney's Statics and Dynamics (C.U.P.).

5A. Properties of Matter.

1 hr., Sat., at 10 (3 hrs. lab).....Miss A. V. Douglas.

Text-book:—Poynting and Thomson's Properties of Matter (Griffin).

5B. Statics, Dynamics of a Particle and Rigid Dynamics.

2 hrs., Tu., Th., at 10.....Assistant Professor Bieler.

Text-books:—Lamb's Statics and Lamb's Dynamics (C.U.P.).

6A. Electrical Measurements.

(Applied Science 320, Lab. 321.)

2 hrs., Wed., Fri., at 9; 4 hrs. lab., Wed., 2-6.
Assistant Professor Bieler.

Text-book:—Terry's Advanced Laboratory Practice in Electricity and Magnetism (McGraw Hill); Starling's Electricity and Magnetism (Longmans).

6B. Light. (Replaced by 8B in alternate sessions.*)

1 hr., Mon., at 9 (lab. Monday, 2-5)...Assistant Professor Keys.

Text-books:—Edser's Light (Macmillian); Wood's Physical Optics (Macmillan).

7A. Electromagnetic Theory.

1 hr., Th., at 11.....Assistant Professor Keys.

Text-book:—Pierce's Electric Oscillation and Electric Waves (McGraw Hill).

7B. Mathematical Physics.

2 hrs., Tu., Sat., at 11.....Assistant Professor Foster.

Text-book:—Houston's Introduction to Mathematical Physics (Longmans).

8A. Molecular Physics.

2 hrs., Wed., Fri., at 9.....Associate Professor Shaw.

Text-book:—Crowther's Ions, Electrons and Ionizing Radiation (E. Arnold).

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*Courses 6B and 8B will be given in alternate sessions as follows:—6B in '26-'27; '28-'29, etc., and 8B in '25-'26; '27-'28, etc.

8B. Theory of Heat. (Replaced by 6B in alternate sessions.*)
1 hr., Mon., at 9 (lab. Monday, 2-5)..Associate Professor Shaw.
Text-book:—Preston's Theory of Heat (Macmillan).

9. Radioactivity.
2 hrs., 2nd term (3 hrs. lab.).....Assistant Professor Bieler.
Text-book:—Rutherford's Radioactive Transformations (C.U.P.).

10. Vector Analysis.
2 hrs., 1st term.....Professor Eve.
Text-book:—Coffin's Vector Analysis (Wiley).

11. Advanced Statics, Dynamics, Hydrodynamics and Sound.
2 hrs.....Professor King.
Text-books:—Lamb's Higher Mechanics (C.U.P.); Basset's Hydro-dynamics and Sound (Deighton Bell).

12. Kinetic Theory of Matter.
2 hrs.....Professor King.
Text-books:—Jeans' Dynamical Theory of Gases (C.U.P.); Bloch's The Kinetic Theory of Gases.

13. (a) Quantum Theory.
1 hr., 1st term.....Professor Eve.
Text-book:—Sommerfeld's "Atomic Structure" (Methuen).
(b) Relativity.
1 hr., 2nd term.....Associate Professor Gillson.

14. Advanced Electricity and Magnetism.
2 hrs.....Professor King.
Text-book:—Jeans' Electricity and Magnetism (C.U.P.).

15. Laboratory Practice and Physical Manipulation.
A course of practical instruction on the use of tools (including the lathe), glass-blowing, photography and the construction of simple apparatus. This course is designed as an aid and introduction to original research.
1 hr. (also 2 hrs. lab.).
Assistant Professor Keys and Mr. H. T. Pye.

16. Thermodynamics.
1 hr.....Professor Barnes.
(Alternate sessions, '26-'27, '28-'29, etc.)

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*See footnote on page 176.

17. **Electron Theory.**
2 hrs.....Professor King.
Text-books:—Richardson's Electron Theory of Matter (C.U.P.); Lorentz Theory of Electrons (Teubner).

HONOUR COURSE IN MATHEMATICS AND PHYSICS

Prerequisites:—High standing in Mathematics 1; Physics 1 or 2.
Second Year:—Mathematics 2, 3, 4; Physics 3, 4; (Chemistry and English recommended as other subjects to be chosen).
Third Year:—Mathematics 5, 6; Physics 5. 6.
Fourth Year:—Mathematics 10, 11; Physics 7, 8.

GRADUATE COURSE IN PHYSICS

See page 437.

DEPARTMENT OF PSYCHOLOGY

PROFESSOR AND DIRECTOR OF THE PSYCHOLOGICAL LABORATORY:—
WILLIAM D. TAIT.
ASSOCIATE PROFESSOR:—CHESTER E. KELLOGG.
ASSISTANTS:— ELMER D. MACLEOD. DONALD H. MACVICAR.

FOR UNDERGRADUATES

1. **Introduction to Psychology.** Second Year.
Lectures, class experiments and exercises.
3 hrs.; Mon., Wed., Fri., at 10.....Professor Tait.
2. **Experimental and Physiological Psychology.**
Laboratory course; readings, experiments and discussions.
1 hr. lecture and 2 lab. periods.....Associate Professor Kellogg.
3. **General Psychology.** Third and Fourth Years.
Lectures, readings and reports.
3 hrs.; Tu., Th., Sat., at 9.....Associate Professor Kellogg.
Given 1925-26.

FOR UNDERGRADUATES AND GRADUATES

4. **Comparative Psychology.** Third and Fourth Years.
Lectures, readings and reports (half course).
3 hrs. per week 1st term.....Associate Professor Kellogg.
Given 1925-26.
5. **Child Psychology.** Third and Fourth Years.
Lectures, readings and reports (half course).
3 hrs. per week 2nd term.....Professor Tait.
Given 1925-26.

6. **Social Psychology.** Third and Fourth Years.
Lectures, readings and reports.
3 hrs.; Tu., Th., Sat., at 10.....Professor Tait.
Omitted 1925-26; given 1926-27.

7. **Aesthetics.** Third and Fourth Years.
Lectures, readings and reports.
3 hrs.....Associate Professor Kellogg.
Given 1925-26.

8. **Educational Psychology.** Third and Fourth Years.
Lectures, readings and reports.
3 hrs.; Mon., Wed., Fri., at 9.....Associate Professor Kellogg.
Omitted 1925-26; given 1926-27.

9. **Mental Measurements.** Third and Fourth Years.
Lectures, experiments, reports (half course).
3 hrs. 1st term.....Professor Tait.
Given 1925-26.

10. **Educational Measurements.** Third and Fourth Years.
Lectures, demonstrations and reports (half course).
3 hrs. 2nd term.....Associate Professor Kellogg.
Given 1925-26.

11. **Vocational Psychology.** Third and Fourth Years.
Lectures, demonstrations and reports (half course).
3 hrs.; one term.....Professor Tait.
Given 1925-26.

12. **Business and Industrial Psychology.** Third and Fourth Years.
Lectures, readings and reports (half course).
3 hrs.; one term.....Professor Tait.
Given 1925-26.

13. **History of Psychology.** Third and Fourth Years.
Lectures, readings and reports (half course).
3 hrs.; one term.....Professor Tait.
Omitted 1925-26; given 1926-27.

14. **Experimental Education.** (Half course.) Third and Fourth Years.
Lectures, reports, experiments.
3 hrs.; one term.....Professor Tait.
Omitted 1925-26; given 1926-27.

Honour Course

Second Year:—1 and Philosophy 1.

Third Year:—Any four full courses 2-14.

Fourth Year:—Any four full courses 2-14 other than those selected in the Third Year. Students taking honours in Psychology

must also take History of Philosophy in the Third or Fourth Year in place of one of courses 2-14. In consultation with the department, allied courses in other departments may be taken instead of certain courses in Psychology. Students are advised to take Greek Philosophy.

The requirements for honours in Psychology and other subjects are two courses in Psychology and two in the other subject selected.

Graduate Courses

See page 441.

School Service Bureau

The Department of Psychology announces the establishment of a School Service Bureau. Its purpose is to furnish aid and advice with regard to intelligence tests, classification of pupils, remedial treatment, standardized tests and measurements and other psychological aspects of education.

As far as time and equipment permit, this service is at the disposal of superintendents, principals, teachers, parents and others interested in education.

DEPARTMENT OF ROMANCE LANGUAGES

Professor:—R. du Roure.

Associate Professor:—P. Villard.

Assistant Professors:—R. Messac.
Mrs. Touren Furness.

Lecturers:—A. Roche.
_____.

FRENCH

Owing to the position which this University occupies in the midst of a very large French speaking population, the Department enjoys the opportunities afforded by French church services, French newspapers, French theatres, French literary clubs and public lecture courses in the French language. It maintains in consequence a particularly high standard in the study of French. Every lecture, even in the First Year, is given in French, and the complete course of studies is so combined as to give the students not only a theoretical knowledge of French grammar and literature, but a practical ability to talk, read and write French correctly and fluently.

Both oral and written examinations are held on each year's work.

The oral examination (in both ordinary and honour courses) counts for 50%.

1. **French Language.** First Year.

3 hrs.—Section A, Mon., Wed., Fri., at 9; Section B, Mon., Wed., Fri., at 11.

Professor du Roure, Associate Professor Villard, Assistant Professors Messac, Furness, M. Roche and Mlle. ———.

Texts:—Green and Fort, French Composition (Oxford); Lavisse, Histoire de France, Cours moyen; Labiche, Le Voyage de M. Perrichon (Holt); Manley, Eight French Stories (Allyn and Bacon); A. Dumas, Les Trois Mousquetaires (Heath). (a) General Course.—Malot, Sans Famille (Heath); Hugo, Gavroche (Oxford). (b) Advanced Course.—Daudet, Lettres de mon moulin (Oxford); Racine, Andromaque (Ginn); Mérimée, Contes et Nouvelles (Oxford); Molière, Le Bourgeois Gentilhomme (Holt).

2. **French Language and Literature.** Second Year.

3 hrs.—Section A, Tu., Th., Sat., at 9; Section B, Tu., Th., Sat., at 11....Associate Professor Villard, Assistant Professors Messac, Furness, M. Roche, Mlle. ————————.

Texts:—Darmstetter, Morceaux choisis du XVIème Siècle; Seventeenth Century French Readings (Holt); Molière, Les précieuses ridicules (Heath); E. Auger, Le Gendre de M. Poirier (Heath); La Fontaine, Fables choisies; Firmin Roz, Vue générale de la littérature française; Louis Hemon, Maria Chapdelaine (Grasset); Cameron, French Composition (Holt).

3. **French Language.** Second Year. (Honour Course.)

3 hrs., Tu., Th., Sat., at 11.....

Professor du Roure, Assistant Professor Furness.

Texts:—Corneille, Le Cid (Holt); Racine, Britannicus (Holt); Molière, Les Femmes savantes (Macmillan); Musset, Trois Comédies (Heath); Hugo, Ruy Blas (Holt); P. Hervieu, La Course du Flambeau (Heath); Pailleron, Le Monde oú l'on s'ennuie (Heath); V. Hugo, Notre Dame de Paris (Ginn).

4. **French Literature of the XVIIth Century.** Third and Fourth Years.

3 hrs., 1st term; Mon., Wed., Fri., at 10..Asst. Professor Furness.

Texts:—Oxford Book of French Verse; French Prose of the XVIIth Century (Heath); Corneille, Polyeucte; Racine, Phèdre; Molière, Le Misanthrope; Mme. de la Fayette, La Princess de Clèves; Doumic, Histoire de la littérature française.

Prose Composition:—(a) Ordinary Course.—Spiers, Graduated Course of Translation into French Prose (Simpkin, Marshall & Co., London).

5. **La France Moderne: Institutions politiques et sociales; politique intérieure et extérieure; mouvement des idées.** Third and Fourth Years.
3 hrs., 2nd term; Mon., Wed., Fri., at 10.....Professor du Roure.

Text:—Lanson et Desseignet: La France et sa civilisation (Holt).

6. **French Literature of the XVIIIth and XIXth Centuries till 1848.** Third and Fourth Years.
3 hrs., 1st term; Mon., Wed., Fri., at 10....
Professor du Roure and Assistant Professor Messac.

Texts:—Lesage, Gil Blas (Heath); Marivaux, Le Jeu de l'amour et du hasard (Macmillan); J. J. Rousseau, Selections; Voltaire, Prose Selections (Heath); Beaumarchais, Le Barbier de Séville (Ginn); Chateaubriand, René (Nelson); Hugo, Hernani; Balzac, Le Père Goriot; French Lyrics of the Nineteenth Century (Ginn); Doumic, Histoire de la littérature française.

Prose Composition:—(a) Ordinary Course.—Spiers, Graduated Course of Translation into French prose (Simpkin, Marshall & Co., London).

7. **French Literature of the XIXth and XXth Centuries.** Third and Fourth Years.
3 hrs., 2nd term; Mon., Wed., Fri., at 10....
Assistant Professors Messac and Furness.

Texts:—Flaubert, Trois Contes: Guy de Maupassant, Contes choisis; A. Daudet, Le Petit Chose; Anatole France, Le livre de mon ami; Paul Bourget, Un disciple; Maurice Barrès, Colette Baudoche; E. Rostand, Cyrano de Bergerac.

8. **Mediæval French Literature and Philology.** Third and Fourth Years. (Honour Course.)
(Given in 1925-1926.)
1 hr., Sat., at 12.....

Texts:—Darmstetter, Cours de Grammaire Historique, Parts I and II, and Bartsch, Chrestomathie de l'Ancien Français.

9. **History of the French Novel.**
Third and Fourth Years (Honour Course).
(Given in 1926-1927.)
3 hrs., Tu., Th., Sat., at 10.....Professor du Roure.

10. **History of the French Theatre of the XIXth Century.**
Third and Fourth Years (Honour Course).
(Given in 1925-1926.)
2 hrs., Tu., Th., at 12..Professor du Roure and Asst. Prof. Messac.

11. Evolution of the French Lyric.
Third and Fourth Years (Honour Course).
(Given in 1925-1926.)
3 hrs., Mon., Wed., Fri., at 12....
Professor du Roure and Assistant Professor Messac.

12. History of the French Theatre of the XVIIth and XVIIIth Centuries. Third and Fourth Years. (Honour Course.)
(Given in 1926-1927.)
3 hrs., Tu., Th., Sat., at 12.....

13. French Commercial Course. Second Year.
3 hrs., Mon., Wed., Fri., at 10.....Associate Professor Villard.
Texts:—Mansion, Histoire de la littérature française; Racine, Britannicus (Holt); Carroué, Manuel de Correspondance Commerciale; Daudet, Les Lettres de mon moulin (Oxford); Sand, La Mare au Diable; Molière, Les Précieuses ridicules.
Home Reading:—Vigny, Le Cachet rouge; Mérimée, Colomba.

14. French Commercial Course. Third Year.
3 hrs., Tu., Th., Sat., at 10.....Associate Professor Villard.
Texts:—Histoire de la littérature française; Lesage, Gil Blas (Heath); Beaumarchais, Le Barbier de Séville (Ginn); Chateaubriand, Atala (Heath); Carroué, Manuel de Correspondance Commerciale; Renault, Lectures Commerciales (Oxford).
Home Reading:—E. Auger, Le Gendre de M. Poirier; Balzac, Eugenie Grandet.

15. French Commercial Course. Fourth Year.
Texts:—Clergot, Manuel d'économie commerciale; Lanson et Desseignet, La France et sa civilisation; Gide, Economie politique; Histoire de la littérature française au 19ème siècle.
Home Reading:—Hugo, Hernani; Flaubert, Trois Contes.

16. French Science Readings. First Year, B.Sc. Course.
3 hrs., Tu., Th., Sat., at 9.....M. Roche.
Text:—Bowen, A First Scientific French Reader (Heath).

HONOUR COURSE.

Prerequisite:—1.
Second Year:—2 and 3.
Third and Fourth Years:—4, 5, 6, 7, 8 and two of 9, 10, 11, 12, and a full course in another subject, approved by the Head of the Department.

FRENCH REQUIREMENTS FOR THE HONOUR COURSE IN FRENCH AND OTHER SUBJECTS

Second Year:—2 and 3.
Third and Fourth Years:—4 and 9 or 10.

M.A. COURSE

See page 441.

mcgill, 1925-26

DEPARTMENT OF SOCIOLOGY

ASSOCIATE PROFESSOR AND DIRECTOR OF THE SCHOOL FOR SOCIAL WORKERS:—CARL ADDINGTON DAWSON.

ASSISTANT PROFESSOR:—W. E. GETTYS. Ph. D. ohio state University

1. **Introduction to the Study of Society.** Second Year.
   Tu., Th., Sat., at 10.....Dr. Dawson and Dr. Gettys.
   Human nature, society and group; isolation and contact; the nature and effects of communication; social forces; competition and the location of the individual in the community; war, racial and cultural conflicts; social control; collective behaviour; social progress.
   Text-book:—Park and Burgess, Introduction to the Science of Sociology.

2. **The Community.** Second, Third and Fourth Years.
   A study of Rural and Urban Life.
   Tu., Th., Sat., at 9.....Dr. Dawson.
   Methods of studying the community; social anatomy a comparative study of communities and their fundamental nature; analysis of the underlying forces of the social process which make for natural groups and institutions (to meet needs, industrial, leisure time, religious, educational, governmental, social agencies); disorganization and re-organization in modern communities; community culture.

3. **Immigration.** Third and Fourth Years.
   (Not given in 1925-26.)

4. **Social Pathology.** Third and Fourth Years.
   Mon., Wed., Fri., at 10, 1st term.....Dr. Gettys.
   Dependency (including poverty); defectiveness; degeneracy; social variation; social unrest and disorder; pathology of play and amusements; crime, delinquency, the gang; family disorganization—desertion; tendencies in the direction of social re-organization. Supplemented by field trips, individual and group studies.

5. **Social Origins.** Third and Fourth Years.
   (Not given in 1925-26.)

6. **Social Movements—Collective Behaviour.** Third and Fourth Years.
   (Not given in 1925-26.)

7. **The Family.** Third and Fourth Years.
   Mon., Wed., Fri., at 10, 2nd term.....Dr. Gettys.
   The study of the family as the fundamental institution, its early forms, attitudes, and natural history, sociological interpretation of family relations in rural and urban life; biological, economic,

up to 1925-26 called "Department of Social Science".

religious, educational and legal aspects of family life. Present-day disorganization and re-organization of family life.

8. **Social Progress.** Fourth Year and Graduate Students. (Not given in 1925-26.)

9. **Social Research: Canadian Problems.** Graduate Students. Hours to be arranged.....Dr. Dawson.

10. **Delinquency and Crime and their Social Treatment.** Third and Fourth Years. Mon., Wed., Fri., at 11, 2nd term.....Dr. Gettys. A study of anti-social behaviour on the part of both juveniles and adults; case studies; theories and practices in punishment; modern developments in penal treatment.

11. **Social Control.** Fourth Year and Graduate Students. Mon., Wed., Fri., at 9, 2nd term.....Dr. Gettys. Elementary forms of social control; evolution of various types of control in society; modern problems of social control.

12. **Social Attitudes.** Fourth Year and Graduate Students. Mon., Wed., Fri., at 9, 1st term.....Dr. Gettys. A study of attitudes as the social products of interaction, as the organization of wishes, as behaviour patterns, as social elements, and as social forces; complexes of attitudes; sentiment-attitudes; typical attitudes as familism, race prejudice, individualism, etc.

DEPARTMENT OF ZOOLOGY

PROFESSOR:—ARTHUR WILLEY.

ASSISTANT PROFESSOR:— ————.

LECTURER:—JEAN T. HENDERSON.

DEMONSTRATOR:—M. NOTKIN.

1M. **Biology II.** Pre-medical Zoology.

1. **Elementary Zoology.**
   2 hrs., 1st term; Mon., Wed., at 2.....Professor Willey.
   2 hrs. lab., Fri., at 2.

2. **Zoology of Invertebrata.***
   2 hrs., Wed., Fri., at 4.....Assistant Professor ————.
   4 hrs. lab., Wed., Fri., at 2.

3. **Colloquium.**
   1 hr., Fri., at 5..... ————

*This is a prerequisite for students who may hereafter wish to undertake zoological work at the Marine Laboratories under the Biological Board of Canada.

4. **Zoology of Vertebrata.**
2 hrs., Mon., Fri., at 10.....Professor Willey.
3 hrs. lab., Th., at 2.

5. **Comparative Embryology.**
2 hrs., 2nd term; Mon., Wed., at 11.....Professor Willey.
2 hrs. lab., Wed., at 2.

6. **Ecology (including Parasitology).**
1 hr. lecture.

7. **Ethnology.**
1 hr., Tu., at 10.....Professor Willey.

Honour Course in Biology

Prerequisites:—Botany 1, Chemistry 1, Zoology 1.
Second Year:—Botany 3 and 4 (with laboratory work); Zoology 2, with at least Physics 1, or Chemistry 2 or their equivalent.
Third Year:—Botany 5 and 6; Zoology 3 and 6.
Fourth Year:—Botany 7 and 8; Zoology 4 and 5.

EXAMINATION TIME TABLES—Faculty of Arts.

SCHOLARSHIP AND SUPPLEMENTAL EXAMINATIONS, SEPTEMBER, 1925.

DATE	Hour.	Supp. to First Year Sessional.	Second Year Scholarships.	Supp. to Second Year Sessional.	Scholarships (Third Year).	Sup. to Third and to Fourth Year Sessional.*
Monday.....14	9.00	English 1. (and Com.)	English Literature (Shakespere, Scott and Tennyson).	Economics, 2.	English Literature (Shakespere and Milton).	Chemistry, 10. Mathematics, 5, 6. Insurance
	2.00	English 2, (and Com.)	English Literature Thackeray, Eliot and Macaulay	English, 4.	English Literature. (Ruskin and Arnold).	Accountancy, Q. History, 4, 6.
Tuesday.....15	9.00	German, 3. Latin 1.	Latin Books.	Latin, 2. Economics (II Com.)	Latin Texts.	Maths. 4 (Inf. Cal.) English, 6. Psychology, 4.
	2.00	Greek, 1 Accountancy (I Com.)	Latin Composition, Sight Translation, and Roman History.	German, 5 (A,B) Psychology, 1.	Latin Composition, and Sight, and Roman History.	Chemistry, 3A. Physics, 5B, 7B.
Wednesday...16	9.00	French, 1, 13.	French Texts.	Botany, 6 and 8 French, 2, 11 and Com.	French Books.	English, 18(a). French, 4.
	2.00	History, 1.	German Texts	Philosophy, 1. Accountancy (II Com.) Zoology, 1 (Med.)	French Composition and Sight.	Physics, 3B Accountancy, P. English, 18(b).
Thursday.....17	9.00	Maths. 1. (Algebra) and Com.	History. Geometry and Trigonometry.	Maths. 2 (Algebra) History 2. Maths, 3 (Anal. Geom.)	Animal Biology. Analytical Geometry and Trigonometry.	Latin, 3.
	2.00	Maths. 1. (Geo. and Trig.) and Com.	German Composition and Sight.	Botany, 1 (Med.) Spanish (II Com.)	German Books. Plant Biology. Logic.	Chemistry, 4,
Friday.....18	9.00		Greek Books, Algebra (Minor), Algebra and Theory of Equations. (Major).	English, 7 Greek, 2, German, 4, Economics, 1,	Greek Texts. Physics. Psychology.	Maths., 9. History, 3, 5. German, 10.
	2.00	Botany, 2. Physics, 1.	Greek Composition, Sight Translation, and History.	Physics, 1 M. Geology, 1. Philosophy, 2. Maths. (II Com.)	Chemistry, Greek Composition, History and Sight Translation.	Chemistry, 3B, 5, 7A. English, 13.
Monday.....21	9.00	German, 1, 3, Spanish.	French Composition and Sight.	Maths. 3 (Cal.) Maths, 2 (Geom.)	Infinitesimal Calculus, German Comp. and Sight.	Chemistry, 2. Education, 2. Spanish (III Com.)
	2.00	Zoology, 1. Chemistry, 1.	Physics.	Sociology, 1. Chemistry, 1, and (Com.)	History and English Composition. Philosophy. (Berkeley).	Geology, 5. Physics, 4, 8A.

*Periods for other subjects to be arranged at the time of the Examination. Physics, 2, 3A Wed., Sept. 23, 9 a.m.

EXAMINATION TIME TABLES

FACULTY OF ARTS.

SESSIONAL EXAMINATIONS, 1926. Subject to Revision.

DATE	MORNING	AFTERNOON
Monday, May 3rd.....	Botany, 4 Latin, 11 French, 1 and Adv. Geology, 1 German, 8 History, 2 History (special subjects) Physics, 8A Psychology, 4 Accountancy (II Com.) Insurance (III Com.)	Chemistry, 16 Latin, 11 English, 5, 8 Geology, 1 (Museum) Social Science, 8 Spanish, (III Com.)
Tuesday, May 4th.....	Botany, 3 Greek, 11 Latin, 3 French, 2, 13 Geology, 3 (Museum) German, 1 History, 6, 8 Accountancy, Q	Greek, 11 Latin, 3 English, 18 Geology, 5 Mathematics, 4B Psychology, 5 Social Science, 2
Wednesday, May 5th.....	Chemistry, 5 Latin, 1 English, 6 French, 4 German, 5B Mathematics, 2, 5 Physics, 7B Psychology, 1 Zoology, 4	Latin, 1 Economics, 5 French, 4, 12 Social Science, 4
Thursday, May 6th.....	Chemistry, 13 Greek, 1, 5 English, 7 Philosophy, 1 Physics, 5B Psychology, 3 Social Science, 1 Mathematics (II Com.)	Greek, 1, 5 German, 2, 3 History, 5 Hebrew, 13 Spanish, (I Com.)
Friday, May 7th.....	Chemistry, 15 Economics, 1 English, 9 History, 4 Mathematics, 1 and Adv. Hebrew, 10 Physics, 6A Social Science, 6 Accountancy, P Botany, 6 and 8 (with Medical students)	Botany, 1 (Med.) Greek, 2 German, 5A History, 4 Physics, 3B Economics (II Com.) Mathematics (I Com.)
Saturday, May 8th.....	Chemistry, 6 Greek, 4, 12 English, 10 French, 3 German, 11 History, 1 Physics, 2 Spanish (II Com.) Statistics, Mathematics, 9	Greek, 4, 12 Economics, 9 Education, 2 Physics, 3A Psychology, 7 Mathematics, 9

DATE	MORNING	AFTERNOON
Monday, May 10th.....	Chemistry, 1 (Dr. Hatcher) Latin, 12 Economics, 2 French, 7, 11 History, 7 History (General paper) Hebrew, 1 Philosophy, 2 Physics, 7A Accountancy (I Com.) German, 7	Chemistry, 4, 7A Latin, 12 Economics, 15 German, 7 Philosophy, 2 Economics (III Com., Th. of Exchange)
Tuesday, May 11th.....	Chemistry, 9 Latin, 2 Economics, 11 English, 2 French, 10 Mathematics, 3, 6 Philosophy, 3 Economics (III Com., Govt. and Tax. in Canada.)	Chemistry, 2, 10 English, 1 Mathematics, 6 Philosophy, 3
Wednesday, May 12th.....	Chemistry, 1 (Prof. Evans), 3B, 8 Economics, 3 English, 13 Hebrew, 3, 9 Philosophy (Grad. 2) Mathematics, 10	Economics, 3 Physics, 1, 1M Hebrew, 9 Mathematics, 10
Thursday, May 13th.....	Economics, 9 (Special) English, 4 Philosophy, 6 and 7	German, 4
Friday, May 14th.....	English, 19 German, 10 History, 3 Philosophy, 4 Physics, 6B, 4	Botany, 2

THE ROYAL VICTORIA COLLEGE

Founded and Endowed by the late Rt. Hon. Baron Strathcona and Mount Royal

FOUNDATION AND HISTORY

The College was opened September 4th, 1899.

It is the outgrowth of plans conceived during the early years of his principalship by the late Sir William Dawson, which resulted in the establishment of the Ladies' Educational Association. Under the auspices of the Association, courses of lectures, delivered chiefly by Professors of McGill University, were offered to women from 1870 until 1884, thus placing within their reach, to some extent at least, the advantages of a Collegiate and University education.

In 1884, during the principalship of the late Sir William Dawson, the late Lord Strathcona, then Mr. Donald A. Smith, gave a sum of $50,000, and, in 1887, a further sum of $70,000, to found the Donalda Endowment for the higher education of women, such education to be conducted in the buildings of McGill College, as a distinct course in the Faculty of Arts, with the understanding that as soon as practicable the classes were to be created into a separate college of McGill University, with a building separate from that of McGill College. Under the terms of the Donalda Endowment it was provided that degrees in the Faculty of Arts should be granted to women practically on the same conditions as to men, and that the examinations for such degrees for classing, honours, prizes and medals should be identical with those for men.

As a result of this generous gift and in accordance with the conditions attached, courses of instruction, identical in subject and in standard with those of the Faculty of Arts, were established for women in 1884. These courses were given in the Arts Building, some of the work of the Third and Fourth Years and of the Honour Courses being conducted in joint classes.

The first graduating class of eight women was presented for the degree of Bachelor of Arts in 1888.

The ultimate object of Lord Strathcona had been the provision of a residential college, and this was realized when the Royal Victoria College was opened in 1899, and formally inaugurated by their Majesties the King and Queen (then Duke and Duchess of York) in 1901.

A Warden and Resident Staff were appointed. With these new and great advantages the instruction provided by the original endowment has been maintained as hitherto, except that the separate classes are held mainly in the College building. Women have continued to prepare for degrees in Arts, including pure science. Through the wisdom of Lord Strathcona, provision was also made for the study of music. Since, however, the establishment of music as a separate department of the University in the Conservatorium of Music, independent instruction in music in the College has ceased, but it still maintains a resident lecturer in this subject, who is also Vice-Director of the Conservatorium. The interest of College students in music is thereby served and provided for. Women students resident in the Royal Victoria College may take degree courses in music at the Conservatorium.

Resident students of Music have the use of pianos in two practising rooms and at certain hours in other parts of the building.

Facilities for lawn tennis and for skating are provided. Subject to regulations, the students have the privilege of using the University grounds.

THE COLLEGE BUILDING

The College building, surrounded by garden and tennis courts, was erected at a cost of about $400,000 at the head of Union Avenue, upon land adjacent to the University Campus. Its beautiful and dignified exterior was designed in consistency with a careful and generous internal provision of a comfortable and gracious place of study and dwelling for students and for staff.

The building provides an academic, administrative and recreational centre for resident and non-resident students. It is situated on Sherbrooke Street, in close proximity to the University buildings, and within easy reach of Mount Royal Park. The building is fire-proof, and much thought and artistic care have been given to furnishing and decoration.

On the ground floor are the offices of the Administration, including the rooms of the Warden and Secretary, the faculty room, the students' common room, a spacious dining hall, and three lecture rooms. On the first floor are other lecture rooms, the library, reading room, and a handsome assembly hall, which is used for Conservatorium concerts, and other University purposes. This hall is sometimes lent for purposes that are in harmony with the objects of the College. The gallery, which is reserved exclusively for the use of College students on such occasions, affords the latter many opportunities of educational value. The second and third floors and a

small part of the first floor are occupied by the rooms of the Resident Staff and students. Each student has a separate study-bedroom. The rooms are completely furnished, and no article of furniture need be brought by the students.

A large gymnasium is provided, fully equipped with modern requirements. In connection with the gymnasium are bath-rooms and dressing-rooms.

ADMISSION AND INSTRUCTION

The College, being a college of McGill University, and its students being registered in the Faculty of Arts, they are required to comply with the regulations concerning discipline and instruction, made by the University and Faculty, and, in addition, with such regulations as may be made for the Royal Victoria College.

Undergraduates are required to pass the Matriculation Examination of the University, or an equivalent examination (see page 57) and can proceed to the degrees of B.A. and B.Sc. under the regulations of the Faculty of Arts as stated on pages 126-140. They are required to wear academic dress. Partial students, in order to obtain admission, must pass the Matriculation Examination in the subject or subjects which they wish to take, or, failing this, must be able to satisfy the Head of the Department concerned that they are qualified to proceed with the course.

Students are required to enter on the roll book of the College their names, home addresses, and addresses in Montreal. All students entering the University for the first time are required, according to municipal regulations, to present a certificate or other satisfactory evidence of successful vaccination. No student who has an infectious illness or who comes from a house in which there has been an infectious illness within a month, shall enter or return to the College without giving notice and obtaining the consent of the Warden. The health of the resident students is in charge of two physicians (Dr. W. F. Hamilton and Dr. C. F. Martin), who may be consulted, free of charge, by arrangement with the Warden. Every student applying for admission to residence is required to fill in an entrance form and to forward a medical certificate on a form provided by the College.

Instruction is given by professors and lecturers of the University and lecturers and tutors of the Royal Victoria College, who are also members of the various teaching departments of the Faculty of Arts. Graduate students can proceed to the degree of M.A., M.Sc. and Ph.D.

Lectures are given in the College or in the University buildings, practical instruction in science being given in the University laboratories. Students are assisted in their studies by the resident staff.

Students of the College have the use of the University Library. There is also a College Library comprising works of general literature and the chief stated books required for the University curricula, the Department of Romance Languages being especially well represented. The College Library and Reading Room are open to resident students from 9 a.m. to 11 p.m. and to non-resident students from 9 a.m. to 6 p.m. (on Saturdays from 9 a.m. to 1 p.m.).

The Peter Redpath Museum, containing large collections in mineralogy, palæontology, zoology, botany, archæology, and ethnology, is open to students of the College.

The Warden's business hours are 10 a.m. to 1 p.m.; at other times, by special appointment. She will be glad to meet all students before the opening of the session and to discuss their plan of work then or at any other time during the session.

Applications for admission should be addressed to the Warden, Royal Victoria College, Montreal.

EXHIBITIONS AND SCHOLARSHIPS

For a statement of the exhibitions and scholarships open to women students of the University, see pages 80 to 92.

In addition to these, and further to encourage residence within the College walls of students who might otherwise arrange to board in the city, the Warden and Staff are empowered to make nominations in any of the four college years to not more than three additional exhibitions of the value of $100.00 each.

TUITION FEES

Students (graduate, undergraduate or partial, resident and non-resident) pay the same fees as are charged in the Faculty of Arts. For undergraduate students the fee is $100.00 (this includes fees for library, gymnasium and graduation). For further information, see pages 107-109. Every student pays an Athletics or Grounds fee of $3.00, and undergraduate students, the Royal Victoria College Undergraduates' Society fee of $2.50, and $1.50 for the McGill Daily. All fees are payable to the Bursar, McGill University, on October 1st and 2nd.

BOARD AND RESIDENCE

Residence in the College is open to graduate students, undergraduates, and, in exceptional circumstances, to partial students. *Application for residence should be made early, as accommodation in the college is limited.* No room is assigned for a shorter period than the University session. Students of the First Year who under regulations of the

Faculty of Arts are dropped from the University (see page 128) will be required to withdraw from residence. The charge for board and residence, in addition to the sessional fee for tuition, is $500.00 ($200.00 for room, $300.0 for board). This may be paid in two equal instalments of $250.00 each, in October and February. Room rent includes all expenses of heat and light (not other electrical attachments, for which fees will be charged). These charges cover the University session from the first day of registration (September 28th) to the close of the examination (for members of the graduating class, to the day after Convocation, May 29th).

Students entering earlier or remaining later for purposes of instruction, practice teaching, or examination, and students arriving in September for practice teaching, supplemental or matriculation examinations, are charged an additional fee of $1.50 a day. No additional fee is charged to students returning earlier than September 27th, for scholarship examinations. With the permission of the Warden, students may remain in residence during the Christmas vacation. They will be required to pay a fee of $1.50 a day for board and residence.

The charges for tuition and room rent are not subject to remission or reduction under any circumstances. Rooms cannot be reserved for a shorter period than the University session. In case of prolonged illness and absence from College for a period of six weeks or more, a proportionate reduction is made in the charge for board. Information concerning Bursary and Loan Funds can be obtained from the Warden.

Notice of withdrawal should be given at the close of the session, or not later than September 1st. Rooms are not reserved for students whose standing at the end of the Session does not entitle them to proceed to the next year (*see page* 139).

PHYSICAL EDUCATION

See pages 173 and 174.

MUSIC

Students taking courses in music leading to the degree or diploma are eligible for residence in the College.

Instruction in music is offered at the McGill Conservatorium of Music—Director, Dr. H. C. Perrin; Vice-Director, Miss Clara Lichtenstein, Resident Lecturer in the Royal Victoria College. Students may prepare for the degree examination in music of the University, or for the Diploma of Licentiate in Music.

DEPARTMENT OF COMMERCE

COURSE FOR THE DEGREE OF BACHELOR OF COMMERCE

The course extends over four years, and students who successfully complete it will be granted the Degree of Bachelor of Commerce (B.Com.).

The curriculum is as follows:—

FIRST YEAR

(a) Obligatory Subjects.

1. **English.**
2. **Mathematics.** (Course No. 1, page 165.)
3. **French,** or **Spanish,** or **German.**
4. **Accountancy.**

(b) Optional Subjects (two to be chosen).

5. **Latin,** or **Greek.**
6. **German,** or **Spanish,** or **French.**
7. **Physics,** or **Biology,** or **Chemistry.**
8. **General History.**

N.B.—(a) High School Physics is a prerequisite to Chemistry in No. 7 above.

(b) Students intending to take up Actuarial Science in the Fourth Year must obtain 60 per cent. in the Mathematics of this Year.

SECOND YEAR

(a) Obligatory Subjects.

1. **French,** or **Spanish,** or **German** (continued).
2. **Accountancy.**

(b) Optional Subjects (three to be chosen).

3. **Economics** No. 1.
4. **English.**
5. **Mathematics.** (Course No. 2.)
6. **Mathematics.** (Course No. 3.)
7. **Psychology.**
8. **German,** or **Spanish,** or **French** (continued).
9. **Chemistry.**

N.B.—Students proceeding to Actuarial Science in the Fourth Year must obtain at least 60 per cent. in Nos. 5 and 6.

THIRD YEAR

(a) Obligatory Subjects.

1. **French,** or **Spanish** (continued).

(b) Optional Subjects (four 3-hour courses, or their equivalent, to be chosen).

2. **Accountancy.**
3. **Business Organization and Scientific Management** (half course).
4. **Economics** No. 2.
5. **Mathematics.** (Course No. 4.)
6. **Mathematics.** (Course No. 5.)
7. **Spanish,** or **French** (continued).
8. **Business and Industrial Psychology.**
9. **Commercial Law.**
10. **Economics** 4 and 5 or 6 and 7.
11. **English (Argumentation and Debate).**
12. **Technology.**

N.B.—(a) Only half credit will be given to a second modern foreign language begun after the Second Year. Students should further note that time-table complications may make it impossible to begin a second language in any Year except the First.

(b) Number 5 must be taken by students proceeding to Actuarial Science in the Fourth Year.

(c) Number 11 (Argumentation and Debate) may be taken either in the Third or the Fourth Year.

(d) First and Second Year Accountancy are prerequisites to No. 2 above.

(e) Second Year Economics is a prerequisite to courses Nos. 4 and 9 above, and No. 4 above is a prerequisite to No. 9 above.

(f) Second Year Psychology is a prerequisite to No. 8 above.

(g) Physics in the First Year and Chemistry in the Second Year are prerequisites to Technology.

(h) Second Year Mathematics (Course No. 2) is a prerequisite to Third and Fourth Year Accountancy.

FOURTH YEAR

(Five 3-hour courses, or their equivalent, to be taken).

1. **French,** or **Spanish** (continued).
2. **Spanish,** or **French** (continued).
3. **Accountancy.**
4. **Economics** No. 3.
5. **Actuarial Science.** (Course No. 6.)
6. **Law.**
7. **Transportation and Marine Insurance.**
8. **Marketing Problems.**
9. **Economics** 4 and 5 or 6 and 7.
10. **English, Argumentation and Debate** (same as No. 11 in the Third Year).
11. **Technology**

N.B.—(a) No. 4 in the First Year, Nos. 2 and 5 in the Second Year, Nos. 2, 3 and 9 in the Third Year, are all prerequisites to Fourth Year Accountancy (No. 3 above).

(b) No. 3 in the Second Year and No. 4 in the Third Year are prerequisites to Nos. 4 and 9 above, and No. 4 above is a prerequisite to No. 9 above.

(c) The Mathematical Courses (Nos. 1, 2, 3, 4) prescribed in the first three years are all prerequisites to Actuarial Science (No. 5 above).

Graduates in Commerce may obtain a B.A. degree by one additional year of residential study in Arts; provided that during the five years of their course they have satisfied all the requirements for this degree.

Graduates in Commerce, who during their course have taken the full programme in Economics, and who have obtained in Latin a standing equivalent to entrance to the Second Year Arts, may enter the Graduate School as candidates for the M.A. degree in Economics and Political Science.

DIPLOMA OF LICENTIATE IN ACCOUNTANCY

To obtain the Diploma of Licentiate in Accountancy, which carries with it right of entrance into the Association of Accountants in Montreal (Chartered Accountants), or into the Institute of Accountants and Auditors of the Province of Quebec, the student must satisfy the following conditions:—

(a) He must pass all the examinations required for, and leading up to, the Degree of Bachelor of Commerce.

(b) He must pursue the course of studies prescribed in this programme for Accountancy students.

(c) He must comply with all ordinances regulating the practical work to be done by students during the vacation.

(d) He must spend at least one year, subsequent to his obtaining the Degree of Bachelor of Commerce, in the office of a practising accountant.

(e) He must then pass successfully the final examination in Accounting and Auditing, Commercial Law, Actuarial Science, and Political Economy before a board of five examiners, composed as follows: the Director-Secretary of the School of Commercial Studies, two Professors of McGill University, a member of the Association of Accountants in Montreal, and a member of the Institute of Accountants and Auditors of the Province of Quebec; or before a board composed of four examiners, in case either of the Associations mentioned fails, after due notice, to nominate its delegate; or before a board composed of three examiners, in case each of the Associations mentioned fails to nominate its delegate.

McGill University has entered into an agreement with the Association of Accountants in Montreal, whereby the candidates of this Association (non-graduates) will take the final examinations conjointly with the University candidates. The papers set will be the same for both classes of candidates, but the University will retain its own Board of Examiners according to the provisions laid down in Bill No. 21.

The Association of Accountants in Montreal has agreed to accept apprenticeship in an Accountant's Office anywhere in Canada.

Graduates must exert themselves to find an Accountant's Office willing to accept them during their period of apprenticeship. The University has no obligation in the matter.

The examination in Auditing and Accounting will be held in the month of December each year; that in the other subjects, in the month of May, at the time of the regular sessional examination.

The fee for the examination in Auditing and Accounting is $25.00. Previous examination papers may be obtained at the Bursar's Office for $1.00 per set.

COURSES OF LECTURES

ACCOUNTANCY

The accountancy work has been carefully graduated and correlated, and is intended not merely to fulfil its part in a general scientific business training, but also to prepare and assist those who purpose taking up accountancy as a profession.

No previous knowledge of bookkeeping is assumed or required; the subject is developed rapidly along the lines that prevail in practice.

FIRST YEAR.

The following plan will give a good indication of the ground covered in this Year:—

The principle of debit and credit; books of original record, how they should be kept, and how utilized; documents employed in connection with them; sales, purchases, consignments, and how to handle them; returns inwards and returns outwards; subsidiary ledgers, and controlling accounts to represent them in the general ledger; special forms of cash-book required to facilitate such control; notes and drafts, discounting and renewal of notes, and the proper methods of treating these operations in the accounts; single entry, how to change to double entry, and vice versa; distinction between revenue and capital expenditure; trading, and profit and loss statements and balance sheet; single proprietorships.

The student will be required to sift and classify his detail, write up all the books of record and account mentioned, and focus results of the various transactions or operations into the final statements.

SECOND YEAR.

The subject matter for this Year will be as follows:—

Special problems that occur in connection with partnerships.—The deed of partnership; rights of partners; effects of dissolution; methods of distributing profits; the bringing in of other partners; goodwill; transformation of a firm into a corporation; departmental accounts; organization and records required; sectional balancing of ledgers and systems of internal check; analysis of expenses; distribution of expenses over departments; results in each department; comparison of these results with those shown in other periods; manufacturing accounts; the elements of cost accounting; records to take care of purchases; the voucher system; depreciation and methods of providing for it; allowances and reserves; sinking funds.

THIRD YEAR.

The work of the Third Year will embrace:—

(a) Theory of the Balance Sheet.—Its form and elements; valuation of these elements; comparative balance sheets and deductions to be drawn from them; double account system; the income statement.

(b) Corporation Finance.—Development of the corporation; status and interior organization of the corporation; how to incorporate; different classes of corporation; promotion and underwriting; stock and bond issues; temporary loans; initial operations; earnings and their disposition; secret reserves; betterments; surplus; control exercised by directors and majority stock-holders; its abuse; consolidations; insolvency; re-organizations; different bases of capitalization; problems connected with stock and bond issues; bonus stock; treasury stock; watered stock; discount and premium on bond issues.

(c) Export Houses.—Records and Accounting system required.

(d) Cost Accounting.—General considerations; advantages of cost systems.

FOURTH YEAR.

(Intended especially for students proceeding to a Diploma in Accountancy, although this course may be taken by all students who have reached the required standard.)

Cost Accounting.—Control of stores, purchasing and issuing, the running inventory; quality, remuneration, and control of labour, different methods of distributing overhead expenses or "burden" and their limitations; calculation of machine-rates; waste and leakage in factories; idle time; forms used in different "job and process" costing systems; how selling price is computed; connection of cost records with general accounts.

Branches, Consolidations, Mergers.—Accounts of head office and of branches; consolidated statements and balance-sheets; holding corporations; control of stock and bond issues; minority holdings; advances to subsidiaries; inter-company profit and liabilities; capital assets and capital liabilities; initial surplus and goodwill.

Insolvency Accounts.—Various schedules adopted; statements of affairs; deficiency statement; realization and liquidation account.

Auditing.—Considerations applicable to all undertakings, and special considerations applicable to particular concerns; laboratory practice in auditing.

Trustees' Accounts.—Executorships and administratorships; accrued claims; accrued expenses; corpus and income.

Accounting in Insurance Companies.—General considerations; systems used.

Bank Accounts.—General considerations.

Municipal Accounts.—General considerations.

Peculiarities in the form of accounts required in other undertakings.

ACTUARIAL SCIENCE

(a) Advanced theory of interest.

(b) Life contingencies (including life annuities and insurance; the mortality table and monetary and other tables based thereon; construction of tables; probabilities of life; expectations of life; probabilities of survivorship; formulae of Demoivre, Gompertz and Makeham; annuities and assurances; successive lives; policy values; life interests and reversions.

Text-Books:—Institute of Actuaries (Pts. I & II); Henry, Finite Differences; Dawson, Insurance; Faekler, Insurance.

BUSINESS ORGANIZATION AND SCIENTIFIC MANAGEMENT

Commercial Organization: Origin, growth, and classification of business organization; tests of efficiency in business organization; social and economic and legal aspects in the following types of organization; single proprietorship; partnership; joint stock company; corporation; agreements, pools, kartells; simple business trusts; combination trusts; community of interest organizations; securities-holding organization, amalgamation, and mergers; launching of an industrial enterprise; planning of a factory; purchase and control of raw materials; labour and its control; wage systems, welfare work; reorganization of a factory; the committee system; the location of industries; principles of management; types of management; departmental relations; standardization and equipment; standardized operations; written standard-practice instructions; adequate records; efficiency rewards.

CHEMISTRY

The course includes a study of the more important elements and compounds, the general laws and principles and the fundamental theories of the science; with as many industrial applications as time will allow. The lectures are illustrated with specimens, experiments, diagrams, lantern-slides, etc. The general intention of the course is to give a thorough training in the basic principles of the science and their applications, so that chemical problems arising in connection with future work and study may be intelligently considered.

Text-Book:—McPherson and Henderson, "A Course in General Chemistry."

ECONOMICS

SECOND YEAR.

1. **Elements of Political Economy.** This class is combined with Economics 1 in Arts.
Three hours per week throughout the session....
Professor Leacock and Professor Hemmeon.

THIRD YEAR.

2. **Economic Distribution.**
This course deals with rent, wages, interest, profits, population, socialism and social reforms.
Three hours per week throughout the session....
Associate Professor Day.

FOURTH YEAR.

3. **Economic Theory of Exchange.**
Money, banking, prices, index numbers, trade, tariffs.
Three hours per week throughout the session....
Assistant Professor Farthing.

THIRD AND FOURTH YEARS.

4. **Elements of Political Science and Comparative National Government and Taxation.**
General principles of government, and national government and taxation in Great Britain and the United States.
Three hours per week, first term. Given in 1926-27.....
Associate Professor Day.

5. **Government and Taxation in Canada.**
Federal, provincial and municipal government and systems of taxation.
Three hours per week, second term. Given in 1926-27.....
Assistant Professor Farthing.

6. **International Trade, Trade Policy and Transportation.** (Course No. 11 in Arts.)
Three hours per week, first term. Given in 1925-26....
Associate Professor Day.

7. **Social and Industrial Legislation.** (Course No. 13 in Arts.)
A study of legislation to include factory acts, labour legislation, pensions, insurance, etc.
Three hours per week, second term. Given in 1925-26.....
Assistant Professor Farthing.

8. **Canada—Manufactures, Labor, Tariff.**
Lectures and Class Reports.....Mr. Goforth.

9. **Canada—Transportation, Immigration, Land Settlement.**
Lectures and Class Reports.....Mr. Goforth.

ENGLISH

The fundamental purpose of the course in English is to train students to deal with such problems of expression as arise in commercial life. Considerable attention will be given to business correspondence and other forms of commercial writing. The interests of students, however, are best served, even for these special purposes, by a more general training in English. These courses will, therefore, include practice in various kinds of writing, as well as a study of English literature, in which a large amount of reading is required. As far as possible, the writing prescribed for students will be related to the work they are doing in other classes.

The following is a brief outline of the work:—

FIRST YEAR.

English 1. English Composition, one hour a week. Weekly individual conferences with the instructor are required.

English 2. English Literature, as prescribed for students in the Faculty of Arts,—a general outline course from Chaucer to Kipling. Readings and fortnightly individual conferences. Two hours a week. Professor Macmillan and an assistant.

SECOND YEAR.

English Literature.—Choice of Second Year Arts Courses.

THIRD YEAR OR FOURTH YEAR.

Argumentation and Debate, with preparation of briefs, etc.

FRENCH

The study of French will be first approached from the literary side, both in order to increase its value to the student as an element of culture and in order to afford a sufficient background for the commercial studies which are to come later. These commercial studies will begin in the Second Year, and will comprise about half of the work done in that Year. In the Third Year work will be almost entirely of a commercial character.

The following is a synopsis of the work:—

FIRST YEAR.

The student will have a choice between:—

(a) The Advanced Arts Course in French and (b) The Ordinary Arts Course in French, strengthened by tutorial class work.

SECOND YEAR.

In this Year the work will be divided into two sections:—

I. A selected Arts course.

II. Work of a commercial nature, embracing:—
Commercial Correspondence:—Letters of introduction, offers of services, inquiries, acceptance of offers, execution of orders, circulars, invoices and account sales; study of trade reports and commercial documents; study of contracts—bills of sale, mortgage deeds, bills of lading, charter-party, insurance contracts.

THIRD AND FOURTH YEARS.

During these Years one hour a week will be devoted to a study of modern French literature. The remaining hours will be taken up with commercial work, which may be conveniently divided into—

(a) Commercial correspondence, study of trade reports, etc., in continuation of work begun in the Second Year; and (b) colloquial French.

(The text-book to be used for this part will be P. Clerget, Manuel d'économie commerciale.)

GERMAN

The study of German will extend through all four Years.

The Arts courses in German are available to Commerce students.

Provision will also be made for instruction in Commercial correspondence.

LAW

THIRD YEAR.

(1) Law of Contracts.
(2) Agency, Partnership and Company formation.
(3) Negotiable Instruments and Banking Law.

FOURTH YEAR.

(1) Company Law.
(2) Sale of Goods.
(3) Insurance Law.
(4) Trustees and Executors.
(5) Bankruptcy and Winding-Up Acts.

MARKETING PROBLEMS

The details of this course will be given in the Announcement for 1926-27.

MATHEMATICS

1. **Mathematics.** (For First Year students.)
Geometry and Trigonometry. Three hours, 1st term....
Algebra. Three hours, 2nd term.....Assistant Professor Tate.
Text-books:—Carslaw, Plane Trigonometry; Hall, School Algebra, Parts I & II.

2. **Mathematical Theory of Finance**....Assistant Professor Tate.

Text-books:—Rietz, Crathorne & Rietz, Mathematics of Finance; Mackenzie, Interest and Bond Values; King, Theory of Finance.

3. **Analytical Geometry and Calculus.**
(Mathematics 3 in Arts).....Professor Murray.

Text-books:—Smith, Conic Sections; Murray, Differential and Integral Calculus.

4. **Finite Differences and Certain Series.**
(Mathematics 7 in Arts). Three hours sess...Assistant Prof. Tate.

Text-books:—Henry, Calculus and Probability; Fine, College Algebra.

5. **Theory of Equations.**
(Mathematics 8 in Arts). Three hours sess.....Dr. Williams.

6. **Theory of Life Contingencies.**
(Mathematics 9 in Arts). Three hours sess.....Asst. Prof. Tate.

Text-books:—Spurgeon, Institute of Actuaries' Text-book, II; Borel, Probability.

(a) Courses 2, 3, 4, 5, 6 are mainly intended for students who wish to enter the Actuarial profession.

(b) Course 2 is a prerequisite for those who wish to take Fourth Year Accountancy.

(c) Courses 2, 3, 4 are prerequisites for 6. A mark of 60% is required.

(d) Course 5 is not a prerequisite to 6, but students desirous of taking 6 in the Fourth Year are strongly advised to take 5 as well as 4 in their Third Year.

PHYSICS

The course in Commercial Physics consists of two lectures and a two-hour laboratory period each week. The object of the course is to introduce the students to the various laws and principles of physics and to make them familiar with the principles underlying the appliances and phenomena of every-day life. In the laboratory the students are required to make measurements and observations under the guidance of instructors. The following headings are indicative of the nature of the course given:—

Simple machines; mechanics of liquids and gases; elasticity and strength of materials; accelerated motion; force; energy; momentum; effects of heat; heat engines; a history of the developments in mag-

netism and electricity; battery currents; induced currents; electric power; alternating current machines; sound production and transmission; sound phenomena; sound as related to music; lamps and reflectors; lenses and optical instruments; spectra and color phenomena; Roentgen rays and electric waves in general.

SPANISH

The study of Spanish will extend through all four Years, and will first be approached from the literary side. In the Second, Third and Fourth years increasing weight will be given to commercial matters.

The following Text-books will be used:—

FIRST YEAR.

Coester's Spanish Grammar (Ginn & Co.); Loiseaux's Spanish Composition (Silver, Burdett & Co.); Jimenez's "Platero y yo" (Heath & Co.); Quintana's "Vida de Blasco Nuñez de Balboa" (Ginn & Co.).

SECOND YEAR.

Coester's Spanish Grammar; Cool's Spanish Composition (Ginn & Co.); Moratin's "El si de las niñas" (Ginn & Co.); Selections from Don Quixote (Heath & Co.); prescribed portions of José Rogerio Sanchez's "Historia de la lengua y literatura españolas."

THIRD YEAR.

Coester's Spanish Grammar; Cool's Spanish Composition (Ginn & Co.); Whitman and Aguilera's Spanish Composition (Longman); Cervantes' "Rinconete y Cortadillo" (Oxford Press); Garcilaso de la Vega's first eclogue (Oxford Press); Valdés's "José" (Heath & Co.); Ten Spanish Farces (Heath & Co.); prescribed portions of José Rogerio Sañchez's "Historia de la lengua y literatura españolas"; Romera-Navarro's "Manual del Comercio" (Holt & Co.).

FOURTH YEAR.

Oxford Book of Spanish Verse, selections from: Calderon's "Alcalde de Zalamea" (Heath & Co.); Becquer, Legends, Tales and Poems (Ginn & Co.); Elder's Spanish Composition (Oxford University Press); José Rogerio Sañchez's "Historia de la lengua y literatura españolas"; Romera-Navarro's "Manual del Comercio"; other books (to be prescribed) dealing with commerce and industry.

TECHNOLOGY

A general account of plants with especial reference to their economic relations: Rubbers; fibres; foods; fermentation; the infection of water supplies; timber, its products and diseases, etc.

Two lectures and one laboratory period of two hours weekly.
First term.....Professor Lloyd.
Second term.....Professor Derick.
Text-book recommended as a working basis:—F. L. Sargent; Plants and Their Uses (Henry Holt & Co.).

TRANSPORTATION AND MARINE INSURANCE

Administration and organization of inland and ocean transportation, including the early history of transportation; meaning and importance of railroad statistics; transport and storage of commodities of a perishable and special character; transportation law, marine insurance.

FACULTY OF APPLIED SCIENCE

DEGREES, EXAMINATIONS AND SOCIETIES

1. DEGREES

The degrees conferred by the University upon such undergraduates of the Faculty as fulfil the conditions and pass the examinations hereinafter stated are "Bachelor of Architecture" (B.Arch.) and "Bachelor of Science" (B.Sc.), mention being made in the diplomas of the latter of the particular course of study pursued.

Students who take the Bachelor of Science degree in one of the courses provided by the Faculty may graduate in any of the remaining courses by attending one or more subsequent sessions and passing the prescribed additional examinations.

For particulars regarding the Double Courses for the degrees of B.A. and B.Sc., and of B.A. and B.Arch., see page 141.

PRIVILEGES FOR HOLDERS OF THESE DEGREES.

Among the privileges enjoyed by Graduates in Engineering, the following may be specially mentioned:—

(1) By a resolution of the Institution of Civil Engineers (England) the holders of the degree of B.Sc., in the courses of civil, electrical, mechanical and mining engineering, who are desirous of becoming Associate Members of the Institution, may under certain conditions be exempted from the examination prescribed for admission to the Institution.

(2) By the Dominion Lands Surveys Act, any graduate in civil or mining engineering may have his term of apprenticeship for the Dominion Land Surveyors' certificate shortened from three years to one.

(3) The McGill School of Architecture is one of the schools recognized by the Royal Institute of British Architects and its instruction meets the requirements of the Board of Architectural Education of that body. Students who obtain the degree of B.Arch. are exempted from the final examination for the associateship of the Royal Institute excepting in the subject of Professional Practice, in which they are required to take a paper set by the Institute's examiners. On passing this they are eligible for candidature as Associate R.I.B.A.

The Province of Quebec Association of Architects admits holders of the degree of B.Arch. to membership and thereby to practice in the Province, on passing an examination in design after spending one

year in the office of a member of the Association. This office experience may be gained by work during the summer vacations.

2. EXAMINATIONS

1. Final examinations are held in all lecture subjects. Class examinations, for which credit may be given in the sessional standing, are held from time to time, at the option of the professor.

2. Students who have failed in one or more subjects of the curriculum shall (except in cases where they are called upon to repeat their year) be required to make good their standing by passing:—

(a) The regular supplemental examinations held immediately before the opening of the session, or
(b) The final examinations in a subsequent session, or
(c) Special examinations, which shall be given only under exceptional circumstances and by authority of the Faculty.

The pass standard in examinations in subjects in which the candidate has already failed twice is sixty per cent., and an unexcused absence from a sessional examination will be regarded as a failure in this connection.

3. Failures in drafting and laboratory subjects may under certain conditions be made good by attendance on special classes during the late afternoons of the first two months of the following session. These classes must be completed and the results reported to the Faculty on or before December 1st.

4. No undergraduate will be allowed to take instruction in any subject until he has passed the examinations in the necessary prerequisite subjects, for particulars regarding which, see page 279.

3. ENGINEERING SOCIETIES

1. The headquarters of the Engineering Institute of Canada are located in Montreal. Students in all departments of engineering are strongly recommended to become student members of the Institute, which they can do on payment of a fee of $3.00. They are then entitled to the monthly journal of the Institute, and to the use of the Institute's rooms, 176 Mansfield Street. They also have opportunities of meeting the prominent engineers of the country, and of being present at the fortnightly sessions, at which papers are read on current engineering subjects and works of construction.

Students are invited to compete for the prizes which are offered by the Institute.

2. Students in Mining and Metallurgy are strongly recommended to become members of the McGill Mining and Metallurgical Society, which, although a student body (see page 272), is affiliated with the Canadian Institute of Mining and Metallurgy, the headquarters of which are in Montreal. Members of this Society receive the Monthly Bulletin of the Transactions of the Institute without extra expense, and are entitled to attend all meetings and to compete for the prizes offered.

COURSES OF INSTRUCTION

The instruction in this Faculty is designed to afford a thorough training of a practical as well as theoretical nature, in the following branches of Applied Science:—

I.—Architecture.
II.—Chemical Engineering.
III.—Civil Engineering and Surveying.
IV.—Electrical Engineering.
V.—Mechanical Engineering.
VI.—Metallurgical Engineering.
VII.—Mining Engineering.

NOTE.—A course is also offered in Engineering Physics, particulars of which are given on page 230.

Military Instruction (subject No. 400) may be given as alternative to certain subjects in connection with Courses II to VII inclusive (see pages 218 to 229).

CURRICULUM

The curriculum as laid down in the following pages may be changed from time to time, as deemed advisable by the Faculty, and in no case shall it be binding beyond the session covered by this calendar announcement.

The regular work of the session 1925-6 will begin on September 30th, 1925, and will end on May 28th, 1926. In the first three years the last month of this period is devoted to field or laboratory classes, details of which are given under "Summer Schools" (see page 231).

The work prescribed for the first two years is the same in all courses, except in that leading to the degree of Bachelor of Architecture (Course I).

The first two years of the engineering courses (II to VII) are mainly devoted to Mathematics, Mechanics, Physics, Chemistry, Drawing and Shopwork, as it is deemed necessary that students in these courses should master the general principles underlying scientific work before commencing the professional subjects.

I. ARCHITECTURE

The course for the degree of Bachelor of Architecture extends over five years. Full information is given in the Announcement of the Department, which will be sent to interested persons upon request to the Registrar of the University.

An essay on an historical or theoretical subject is required in each term from all students following the historical or theoretical courses.

In all courses studio work goes hand in hand with oral teaching, with a view to the practical application of the theory, while at the same time affording opportunity for the acquisition of power in draughtsmanship and practice in design.

FIRST YEAR.

SUBJECT	Subject Number	Lectures per week		Draughting Room and other periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
English	131	2	2	..	..	255
Algebra	Arts (1)	..	3	..	..	..
Geometry	191	2	..	..	..	259
Trigonometry	Arts (1)	3	..	..	..	..
Mechanics	194	2	2	..	..	259
Physical Education	..	..	..	⅔	⅔	273
Physics	Arts (44)	2	2	..	..	..
Physics Lab	Arts (45)	..	..	1	1	..
Elements of Architecture	5	1	1	..	..	236
Architectural Geometry I	18	1	1	1	1	241
Architectural Drawing	33	1	1	3	3	240
Freehand Drawing	38	..	..	2	2	241
*Surveying Field Work	347	..	..	..	..	276

*This subject is counted as part of the Second Year curriculum but the work is done in the four weeks immediately following the close of the First Year Examinations. (See page 231).

Any undergraduate student of the First Year in the course of Architecture who at the close of the first term has failed to obtain an average of 33 per cent. in the following five subjects, viz.: mechanics, geometry, algebra, physics and architectural drawing, may be required to withdraw from the Faculty.

Any other student of the First or any subsequent year, whose record is found to be unsatisfactory, may at any time be required to withdraw from the Faculty.

All students of the First Year in the Department of Architecture who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than three subjects of the First Year, in which standing is determined by sessional examinations or in three such subjects aggregating over 300 possible marks, shall be required to repeat the work of the First Year, and while so doing shall be debarred from taking any more advanced work.

SECOND YEAR.

SUBJECT	Subject Number	Lectures per week		Draughting Room and other periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Design A	1	..	..	2	2	236
Elements of Composition	6	1	1	..	..	236
Building Construction	24	1	1	..	..	239
Building Details	25	..	..	2	2	239
Arch. Engineering I	26	1	1	..	..	239
Arch. Eng. (Draughting) I	27	..	..	1	1	239
History of Classic Arch	14	2	2	..	..	238
Arch. Geometry II	19	1	1	1	1	241
Surveying	346	2	2	..	..	276
Mapping	348	..	..	1	1	276
Architectural Drawing	34	..	..	1	1	240
Freehand Drawing	39	..	..	1	1	241
Physical Education	..	..	..	⅔	⅔	273
Summer Work	50	..	..	..	..	241
*Surveying Field Work	347	..	..	..	..	276
Architectural Essay	46	..	..	..	..	241

*Surveying Field Work is done in the four weeks immediately following the close of the First Year Examinations in April. In the case of students entering from other Universities, this work should be done before entering the Second Year in Summer Schools, as shown on page 231.

All students of the Second Year in the Department of Architecture who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in subjects aggregating not less than 350 possible marks, shall be required to repeat the Second Year.

THIRD YEAR.

SUBJECT	Subject Number	Lectures per week		Draughting Room and other periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Design B	2	..	..	4	4	236
Theory of Design*	7	1	1	..	..	237
Arch. Engineering, II A	28	1	1	..	..	239
Arch. Eng. (Draughting), II A.	29	..	..	1	1	239
History of Mediaeval or Renaissance Arch†	15 or 16	2	2	..	..	238
Ornament and Decoration‡	9 and 10 or 11 and 12	1	1	1	1	237
Freehand Drawing	40	..	..	2	2	241
Architectural Drawing	35	..	..	1	1	240
Architectural Essay	47	..	..	..	..	241
Summer Work and School	50	..	..	..	..	241

FOURTH YEAR.

Design C	3	..	..	4	4	236
Theory of Planning*	8	1	1	..	..	237
Arch. Engineering, II B	30	1	1	..	..	239
Arch. Eng. (Draughting), II B.	31	..	..	1	1	239
History of Mediaeval or Renaissance Architecture	15 or 16	2	2	..	..	238
Ornament and Decoration	9 and 10 or 11 and 12	1	1	1	1	237
Architectural Drawing	36	..	..	1	1	240
Freehand Drawing	41	..	..	1	1	241
Modelling	42	..	..	1	1	241
Architectural Essay	48	..	..	..	..	241
Summer Work and School	50	..	..	..	..	241

FIFTH YEAR.

Design D	4	..	..	7	7	236
Modern Architecture	17	2	2	..	..	238
Professional Practice	32	2	2	..	..	240
Engineering Law	175	1	1	..	..	259
Historical Drawing	37	..	..	1	1	241
Modelling	43	..	..	1	1	241
Hygiene	22	2	..	..	..	239
Heating and Ventilation	23	..	1	..	1	239
Architectural Essay	49	..	..	..	..	241
Summer Work	50	..	..	..	..	241

†The courses on Mediaeval and Renaissance Architectural History, numbers 15 and 16, are given in alternate years. During the Session 1925-26, the History of Renaissance Architecture will be given.

‡Ornament and Decoration, courses numbers 9 and 10, and 11 and 12, are given in alternate years. During the Session 1925-26, numbers 9 and 10 will be given.

*The courses on Theory of Design and Theory of Planning, numbers 7 and 8, will be given in alternate years.

NOTE.—In the Department of Architecture after two failures in any subject a third examination will only be granted after the student concerned has taken special tuition of a character approved by the Department.

For summer reading, see pages 232 to 235.

II. ENGINEERING COURSES.

The subjects of instruction in the first two years of the Engineering Courses (II to VII), and the number of hours per week devoted to each, are as follows:—

FIRST YEAR.

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Algebra	192	5	4	..	..	259
Descriptive Geometry	341	1	1	⅔	⅔	252
*English	131	2	2	..	..	255
Engineering Problems	80	..	..	1	1	246
Freehand Drawing and Lettering	342, 343	1	1	⅔	⅔	252
Geometry	191	2	..	..	..	259
History of Science	170	1	1	..	..	258
Mechanical Drawing	211	..	..	2	2	252
Mechanics	194	2	2	..	..	259
Physical Education	...	..	..	⅔	⅔	273
Physics	311	3	3	..	..	275
Physics Lab	312	..	..	1	1	275
Trigonometry	193	..	3	..	..	259
†Surveying Fieldwork	347	..	..	..	..	276

*The lectures will be supplemented by individual conferences with the instructors.

†This subject is counted as part of the Second Year Curriculum, but the work is done in the four weeks immediately following the close of the First Year Examinations. (See page 231).

Any undergraduate student of the First Year, who at the close of the first term has failed to obtain an average of 33 per cent. in the following five subjects, viz:—mechanics, geometry, algebra, physics, and descriptive geometry, may be required to withdraw from the Faculty.

Any other student of the First, or any subsequent Year, whose record is found to be unsatisfactory, may at any time be required to withdraw from the Faculty.

All students of the First Year who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than three subjects of the First Year, in which standing is determined by sessional examinations, or in three such subjects aggregating over 350 possible marks, shall be required to repeat the work of the First Year, and while so doing shall be debarred from taking any more advanced work.

SECOND YEAR.

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Tem	
Anal. Geometry	197	3	..	..	..	260
Calculus	198	2	4	..	..	260
Descriptive Geometry and Perspective	345	1	1	⅔	⅔	253
General Chemistry	51	3	3	..	..	242
General Chem. Lab	52	..	..	1	1	242
Mapping	348	..	..	1	1	276
Materials of Construction	81	..	..	..	..	246
Mechanics	83	2	2	⅔	⅔	247
Mech. of Machines	218	..	1	..	⅔	260
Physical Education	...	..	..	⅔	⅔	273
Physics	315	2	2	..	..	275
Physics Lab	316	..	..	1	1	275
Surveying	346	2	2	..	..	276
*Surveying Field Work	347	..	..	..	..	276
Summer Reading	132	..	..	..	..	232

*Surveying Field Work is done in the four weeks immediately following the close of the First Year Examinations in April, (about April 27th, 1926) (see page 51). In the case of students entering from other Universities this work should be done in a Summer School before entering the Second Year (see page 231).

All students of the Second Year who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than four subjects of the Second Year, in which standing is determined by sessional examinations, or in three such subjects aggregating over 400 possible marks, shall be required to repeat the Second Year.

II. CHEMICAL ENGINEERING

The aim of this course is to prepare students for positions demanding a knowledge of both chemistry and engineering. The duties of a chemical engineer require him to be conversant with chemical processes and the installation of chemical units, and to understand the construction of buildings, the installation and operation of machinery, etc. Accordingly the course of study combines a considerable amount of engineering with the maximum of chemical training that can be attained without over-pressure.

Between the Second and Third Years, students taking this course must attend a summer session of four weeks in the chemical laboratories.

In the Third Year specialization commences, the time being divided about equally between chemical and engineering studies, and in the vacation between the Third and Fourth Years all students must give at least six weeks to work in some chemical industry or to equivalent laboratory work satisfactory to the Professor of Chemistry.

In the Fourth Year the engineering studies are completed and the chemical studies which predominate are arranged in two alternative courses, as students cannot possibly study more than a few of the very varied chemical industries. These alternative courses fall broadly under one of two headings:—(*a*) inorganic, (*b*) organic, as indicated in the table below, one or other of which the student shall select. Should a student desire to prepare for an industry which requires more engineering knowledge than is provided in the regular course he may substitute additional engineering subjects for some of the chemical work. Details will be arranged on application to the Faculty through the Professor of Chemistry.

While every effort will be made to supply detailed information as to methods and plan of many of the important industries, and to provide facilities for experimentally carrying out the processes involved, the main aim will be to study the principles that underlie the application of chemistry to economical production.

FIRST AND SECOND YEARS.

As in other Engineering Courses. For details, see pages 216 and 217.

THIRD YEAR.

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Crushing and Grinding Mach	295	2	..	..	..	269
Economics	171	..	2	..	..	258
General Elem. Metall	262	2	..	..	..	266
Inorg. Quant. Anal. & Lab...	61–62	1	..	3	3	243
Mech. Eng. and Lab	226and 228	2	2	1	1	261
Mineralogy	142	2	2	..	..	257
Mineral. Deter	143	..	..	2	..	257
Organic Chemistry and Lab.	56–57	3	2	..	2	243
Physical Chemistry	58	2	1	..	..	243
Strength of Materials and Lab	87–88	2	1 2	..	1	247
Structural Engineering	90	..	1	..	1	248
Summer School, Inorg. Qual. Anal. and Lab	54 and 55	..	..	..	..	242
Summer Essay or Reading..	133	..	..	..	..	233

FOURTH YEAR.

Adv. Inor. Chem	72	2(a)	2(a)	..	..	246
Adv. Org. Chem. and Lab..	64–65	2(b)	2(b)	4(b)	2(b)	244
Applied Electro-Chem	70	2	..	..	..	245
*Colloid Chemistry and Lab.	75	..	2	..	..	246
Elem. of Elec. Eng. and Lab.	111–112	2	2	1	1	253
Engineering Economics	172	2	..	..	..	259
†Engineering Law (alt.)	175	1	1	..	..	259
Fire Assaying and Lab	273	1(a)	..	1(a)	..	267
Food Chemistry	73	..	1(b)	..	2(b)	244
History of Chemistry	74	..	1	..	..	246
†Hydraulics	100	1	..	½	..	251
Industrial Inorg. Chemistry	68	2	..	..	..	245
Industrial Organic Chem...	69	..	2	..	..	245
Inorganic Laboratory	67	1(a)	..	3(a)	4(a)	245
Metallography and Lab	282	½	..	½	..	268
†Military Science (alt.)	400	2	2	..	1	..
Phys. Chem. and Lab	66	3	3	..	2	244
Summer Essay	134	..	..	..	..	234

*The hours required for laboratory work in this course will be taken from time assigned to subjects 65 or 67.

†Military Science (400) is alternate with Engineering Law (175) and Hydraulics (100).

(a) Inorganic alternative. (b) Organic alternative.

III. CIVIL ENGINEERING

The courses of study are designed to emphasize the fundamental principles embodied in the study of mechanics, strength of materials, and hydraulics, while at the same time affording an opportunity of applying these principles to practical problems ranging over as wide a portion as possible of the field covered by the practice of civil engineers. A broad and sound foundation is thus laid for future specialization, either in graduate courses or in actual practice. The outlook of the student is further broadened by courses in Mechanical and Electrical Engineering. In the Fourth Year an alternative course is provided for students looking forward to Municipal Engineering or City Management. In the designing courses special attention is given to the interpretation and critical discussion of specifications as well as to the economical principles involved. Students are recommended to obtain as much practical experience as possible during the summer vacations, and are specially recommended to spend at least one season in a drafting office before the final year.

FIRST AND SECOND YEARS.

As in other Engineering Courses. For details, see pages 215 and 217.

THIRD YEAR

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Economics	171	1	2	..	..	258
Foundations	89	1	1	..	1	248
Geology, General	141	2	2	⅓	⅓	256
Highway Engineering	85	..	2	..	2	249
Hydraulics and Lab	97–98	2	..	1	..	249
†Map Projections (alt.)	351	..	..	1	..	276
Mech. Eng. and Lab	226, 228	2	2	1	1	261
Mechanics	86	2	..	..	..	247
Railway Eng	92–93	2	..	2	..	248
†Sanitary Science (alt.)	82	1	..	1	..	249
Strength of Mats. and Lab.	87–88	2	2	..	1	247
Structural Eng	90	..	1	..	1	248
Surveying	353	2	2	..	..	277
‡Surveying Field Work	354	..	..	..	..	277
Summer Reading or Essay	133	..	..	..	..	233

†Map Projections (351) is alternative with Sanitary Science (82).

‡For Surveying Field Work (354), see details of Summer Schools, page 231.

FOURTH YEAR.

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Elements of Elec. Eng. & Lab.	111–112	2	2	1	1	253
Engineering Economics	172	2	..	..	..	259
*Engineering Law	175	1	1	..	..	259
Geodesy and Lab	359, 360	2	..	1	..	277
†Geodetic Fieldwork	361	..	..	..	..	277
*Military Science	400	2	2	..	1	...
Strength of Materials	95	2	1	..	1	250
Theory of Structures	94	1	2	1	2	249
and either						
Bridge Design	96	2	2	2	2	250
*Hydraulic Machines	99	..	2	..	..	250
Municipal Engineering	101	2	2	..	1	251
or						
Bridge Design	96a	2	2	2	1	250
Civic Administration	104	1	..	..	..	251
Waste Disposal	103	1	..	..	..	251
Water Sup. and Sewerage	102	..	3	..	2	251
Summer Essay	134	..	..	..	..	234

*Military Science (400) is alternative with Eng. Law (175) and Hydraulic Machines (99).

†For Geodetic Fieldwork (361) see details of Summer Schools, page 231.

IV. ELECTRICAL ENGINEERING

The electrical courses of the Third Year cover a consideration of current flow, the principles of electro-magnetism and electrical measurements.

A course in the design and performance of electrical machinery is followed by the study of alternating currents.

The Fourth Year is devoted almost entirely to Electrical Engineering study.

Technical courses cover the generation, transmission and distribution of electric power, and include lectures and laboratory work on direct and alternating current phenomena, the performance and design of electrical machinery, electric lighting and the various systems of power distribution and transmission. Courses are given on Central Station Design, Electrical Traction Systems, Hydro Electric Power development, Electro-Chemistry, Electro-Metallurgy, Electrical Measurements and Communication Engineering.

Visits are made to Electrical Works and Power Plants.

FIRST AND SECOND YEARS.

As in other Engineering Courses. For details, see pages 216 and 217.

THIRD YEAR.

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Calculus	201	1	1	..	..	260
Economics	171	..	2	..	..	258
Electrical Engineering	113	3	3	..	..	254
Electrical Engin. Lab.	114	1	1	2⅔	2⅔	254
Machine Design	225	2	2	..	..	261
Mechanical Drawing	232	..	..	1	1	262
Mech. Eng. and Lab.	223,226	2	2	2	1	261
Mechanics	86	2	..	..	..	247
Mech. of Machines	224	2	2	⅔	⅔	260
Thermodynamics	229	2	2	..	..	262
Strength of Mats and Lab.	87, 88	2	2	..	1	247
Summer Reading or Essay	133	..	..	..	..	233

FOURTH YEAR.

Applications of Electricity	123	1	3	..	..	255
Applied Elec. Chem.	70	2	..	..	..	245
Electric Traction	121	..	2	..	..	255
†Electrical Designing	122	2	2	1	1	255
Electrical Engineering	117–118	3	3	3	3	254
Elec. Light & Power Dist.	120	2	..	..	..	254
Electrical Photometry and Illumination	124	2	..	..	..	255
Electro-Metallurgy	276	..	2	..	..	268
Engineering Economics	172	2	..	..	..	259
†Engineering Law (alt.)	175	1	1	..	..	259
Hydraulics and Lab.	97, 98	2	..	1	..	249
Machine Design	243	..	2	..	..	263
†Military Science (alt.)	400	2	2	..	1	..
Physics and Lab.	320, 321	2	2	2	2	275
Summer Essay	134	..	..	..	..	234

†Military Science (400) is alternative with Engineering Law (175) and one lecture hour per week of Electrical Design (122).

For Summer Schools, see page 231.

For the Course in Engineering Physics, see page 230.

V. MECHANICAL ENGINEERING

Undergraduates entering the Third Year Mechanical Engineering course may elect one of two courses; either that embracing Mechanics of Machines and advanced Thermodynamics or that embracing Accounting and Industrial Engineering.

The subjects of instruction in this Department are of interest to students who are likely to take up work connected with:—

(*a*) The constructive or manufacturing side of mechanical engineering, including industrial or production engineering; (*b*) steam engineering; (*c*) gas engine and producer work; (*d*) power plant engineering; (*e*) heating and ventilation of buildings and factories; (*f*) aeronautics and aerodynamics.

Courses are given during the Third and Fourth Years in mechanical engineering as applied to questions connected with power installations and prime movers. The earlier portion of this work is supplementary to the instruction given in thermodynamics, mechanics of machines and machine design, and leads up to the more advanced or technical subjects of power plant design, industrial plant design and works organization.

Students in the Department of Mechanical Engineering take work in Electrical Engineering during the Third Year.

Instruction in workshop practice is given in the Third and Fourth Years. This work is of a systematic nature, and is intended to prepare for, but by no means to replace, that practical experience of manufacturing operations on a commercial basis which every mechanical engineer must obtain for himself.

The course in thermodynamics deals more particularly with the theory of heat engines, and time is assigned for additional graphical and experimental work in connection with the subject.

Arrangements are made for occasional visits to power plants and manufactories of importance.

FIRST AND SECOND YEARS.

As in other Engineering Courses (see pages 216 and 217, with additional course in May for Second Year, page 231).

THIRD YEAR.

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
*Accounting (alt.)	238	2	2	⅓	⅓	262
Economics	171	..	2	..	..	258
Elements of Elect. Eng. Lab.	111–112	2	2	1	1	253
Industrial Engineering	237	2	..	..	..	262
Machine Design	225	2	2	..	..	261
Mechanical Drawing	231	..	..	2	1	262
Mechanical Eng. and Lab.	227, 228	3	3	1	1	261
Mechanics	86	2	..	..	..	247
*Mechanics of Machines (alt.)	224	2	2	⅓	⅓	260
Shopwork	235, 236	..	..	1	1	262
Strength of Mats. and Lab.	87, 88	2	2	..	1	247
Structural Engineering	90	..	1	..	1	248
Thermodynamics	229	2	2	..	..	262
Summer School Shopwork	233, 234	..	..	..	..	231
Summer Reading or Essay	133	..	..	..	..	233

*Alternative with Mechanics of Machines (224); one or other of these subjects must be taken.

FOURTH YEAR.

Designing	241	..	..	1	1	263
Engineering Economics	172	2	..	..	..	259
†Engineering Law (alt.)	175	1	1	..	..	259
Experimental Eng.	257	1	1	..	..	264
Heat and Vent. of Buildings	247	1	1	..	..	263
Hydraulics and Lab.	97, 98	2	..	1	..	249
†Hydraulic Mach.	99	..	2	..	..	250
**Industrial Administration	254	..	1	..	1	265
*Industrial Engineering	253	2	2	1	1	264
**Industrial Relations	258	2	..	..	..	265
Machine Design	242	2	2	..	..	263
Power Plant Design	244	1	1	1	1	263
Mech. Eng. Lab.	249	..	..	3	3	263
Mech. Eng. Lab.	249a	..	..	2	2	264
Mech. of Mach. (alt.)	240	2	2	⅓	⅓	263
†Military Science (alt.)	400	2	2	..	1	
Shopwork	252	..	..	1	1	264
*Thermodynamics	251	2	2	..	..	264
Summer Essay	134	..	..	..	..	234

†Military Science (400) is alternative with Engineering Law (175) and Hydraulic Machinery.

*Industrial Engineering (253) alternative with Thermodynamics (251).

**Students electing the Accounting alternative (258) in the Third Year must take these two subjects in the Fourth. Mechanics of Machines (240) cannot be taken.

Students taking course (254) take course (249a) in Mech. Eng. Laboratory.

VI. METALLURGICAL ENGINEERING

This course is designed for students intending to enter metallurgical works, such as steel works, smelting or refining plants, foundries, rolling mills, etc., or the metallurgical departments of large engineering works.

The course of instruction provides: 1st, a general scientific and engineering education; 2nd, more advanced work in inorganic, physical and electro-chemistry and chemical analysis, which subjects are essential for a metallurgist; 3rd, as much mechanical, electrical and hydraulic engineering as time will permit; 4th, a course in the allied subjects of geology, ore deposits and mining; 5th, a full course of instruction in the various branches of metallurgical engineering and the closely related subjects, mineralogy, ore-dressing and fire-assaying.

Between the Second and Third Years there is a four weeks' Summer School in qualitative analysis in the Chemical Laboratory, beginning about the 1st of May.

In the Third Year instruction is given in economics, chemistry, physical chemistry, assaying, geology, mineralogy, mining, ore-dressing, metallurgy, and mechanical and structural engineering.

A metallurgical Field School is held after the April examinations of the Third Year. In this school the students pay visits to a number of metallurgical plants under the guidance of the Department Staff and Officials of the plants visited, and make a careful study of the design and operation of each.

Students are expected, as far as this is practicable, to obtain employment in some metallurgical works during the summer before emering the Fourth Year, and suitable employment can usually be obtained at the end of the Field School.

In the Fourth Year instruction is given in chemistry, electro-chemistry, electrical engineering, law, economics, hydraulics, metallurgy, electro-metallurgy, metallography, ore deposits and ore-dressing. Metallurgical designing and laboratory work form important parts of the course.

Laboratory accommodation is provided for graduate students who wish to do advanced work in some branch of metallurgy in preparation for the M.Sc. degree, and a Research Fellowship is available each year for some graduate student who shows marked ability for such work.

FIRST AND SECOND YEARS.

As in other Engineering Courses. For details, see pages 216 and 217.

THIRD YEAR.

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Economics	171	..	2	..	..	258
Fire Assaying	263	..	1	..	2	266
Geology, General	141	2	2	⅓	⅓	256
Inorg. Qual. Anal. and Lab.	59, 60	1	..	2	..	243
Mine Mapping	293	..	..	1	..	270
Mech. Eng. and Lab.	226, 228	2	2	1	1	261
Gen. Element. Metall.	261	2	..	..	½	265
Mineralogy	142	2	2	..	..	257
Mineralogy, Determinative.	143	..	..	2	..	257
Mining Engineering	291	..	2	..	..	269
Ore Dressing and Lab.	292	2	2	..	½	269
Strength of Mats. and Lab.	87, 88	2	2	..	1	247
Structural Engineering	90	..	1	..	1	248
Surveying	352	2	..	..	..	277
Surveying Field Work	354	..	..	..	..	277
Summer Reading or Essay	133	..	..	..	..	233

FOURTH YEAR.

Engineering Economics	172	2	..	½	½	259
Elem. of Elec. Eng. and Lab.	111a	..	2	..	1	253
Engineering Law (alt.)	175	1	1	..	..	259
Geology of Canada	149	1	..	..	..	258
‡Geology, Historical (alt.)	152	1	1	..	1	258
Hydraulics	100	1	..	½	..	251
Inorg. Quantitative Anal.	71	1	..	4	..	246
Metallurgy, General	271	2	2	..	..	267
*Military Science (alt.)	400	2	2	..	1	..
Mining Engineering	297	3	3	..	..	270
Mining Machinery	298	..	2	..	2	270
†Mining (Adv.)	299	1	1	1	1	270
Mining Colloquium	301	1	1	..	..	270
Ore Dep. and Econ. Geol.	148	1	4	..	..	257
Ore-Dress., Milling and Lab.	300, 305	2	..	1	..	270
Ore-Dress., Lab. and Thesis.	306	..	..	..	2½	270
Petrography and Lab.	146	1	..	..	1	257
‡Petrography Advan. (alt.)	147	..	..	1	..	257
Mining Field School	294	..	..	..	..	272
Summer Essay	134	..	..	..	..	234

*Students taking Military Science omit the whole of Engineering Law (175) and 12 lectures each, in Mining Machinery (298) and Ore Deposits (148).

†Omitted by students taking elective alternative (a).

‡Omitted by students taking elective alternative (b).

Surveying Field work, between the Second and Third Years. See pages 231 and 276.

NOTE.—Mining Field work at end of Third Year. See page 95.

VII. MINING ENGINEERING

The work of the Third Year is largely in general engineering subjects such as applied mechanics, mechanical engineering, geology, mineralogy and surveying, but courses of special interest to Mining Engineers are introduced in ore-dressing and elementary mining and metallurgy.

The Fourth Year, on the other hand, is very largely given up to technical work in mining, ore-dressing, economic geology and metallurgy, and two alternative lines of study are offered, both including the essential subjects of the Mining Course and leading to the degree. The first alternative (a) offers additional instruction in stratigraphy and petrography, and is intended for men who are especially interested in geology and mining geology. The second (b) offers an equivalent amount of special instruction in advanced mining and ore-dressing and permits of a considerable measure of individual specialization in mining subjects.

In both of the above alternatives, the Fourth Year work includes the equivalent of nearly two full days per week in the laboratories and drafting room of the mining department, and in the second term each student is required to prepare a thesis giving the result of an extended individual experimental investigation.

A Field School in mining, ore-dressing and geology is held between the Third and Fourth Years, the work ordinarily beginning immediately after the close of the April examinations. Four weeks are spent in travel, during which a certain amount of geological field work is done and a number of mines and concentrators are visited and critically studied under the direction of the Departmental staff. At the end of this Field School summer employment with pay can ordinarily be arranged for all members of the class.

Facilities are also afforded to graduate students who wish to do advanced work in mining or ore-dressing, and the Department possesses three endowed research fellowships open to graduates who show exceptional ability. (See page 106.)

FIRST AND SECOND YEARS.

As in other Engineering Courses. For details, see pages 216 and 217.

THIRD YEAR.

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Economics	171	..	2	..	..	258
Fire Assaying and Lab	263, 264	..	1	..	2	266
Geology, General	141	2	2	½	½	256
Gen. Elem. Metall. & Lab	261	2	..	..	½	265
Inorg. Quant. Anal. and Lab.	61, 62	1	..	3	..	243
Mech. Eng. and Lab	226, 228	2	2	1	1	261
Metall. Calculations	265	1	..	..	..	266
Mineralogy	142	2	2	..	..	257
Mineralogy, Determinative.	143	..	..	2	..	257
Mining Engineering	291	..	2	..	..	269
Ore Dressing and Lab	292	2	2	..	½	269
Physical Chemistry	58	2	..	..	..	243
Strength of Mats. and Lab.	87, 88	2	2	..	1	247
Structural Engineering	90	..	1	..	1	248
Summer School, Inorg. Qual. Anal. and Lab	54, 55	..	..	..	..	242
Summer Reading or Essay	133	..	..	..	..	233

FOURTH YEAR.

‡ Applied Electro-Chemistry.	70	2	..	..	..	245
Elem. Elec. Eng. and Lab	111, 112	2	2	1	1	253
Electro-Metal and Lab	275	..	2	..	1	267
Engineering Economics	172	2	..	..	..	259
†Engineering Law	175	1	1	..	..	259
General Metallurgy	271	2	2	..	..	267
Hydraulics and Lab	100	1	..	½	..	251
‡Industrial Chemistry, Inorg	68	2	..	..	..	245
Inorganic Lab	67	1	..	3	..	245
Metallurgy, Advanced	272	2	2	..	..	267
Metallurgical Lab. and Thesis	274	..	..	..	3	267
Metallurgy Colloquium	277	..	1	..	..	268
Metal Calcs. and Design	278	1	..	..	2	268
†Metallurgical Analysis	279	..	1	..	1	268
Metallography and Lab	280, 281	1	..	1	..	268
†Military Science (alt.)	400	2	2	..	1	...
Ore-Dressing and Lab	300, 305	2	..	1	..	270
†Ore Deposits (alt.)	148	1	1	..	..	257
*Metallurgical Field School	267	..	..	..	..	266
Summer Essay	134	..	..	..	..	234

‡Applied Electro-Chemistry (70) is alternative with Industrial Chemistry (68).

†Students taking Military Science or Ore Deposits omit Engineering Law (175) and Metallurgical Analysis (279).

*Metallurgical Field School (267) is taken at the end of the Third Year.

For Summer Schools, see pages 231 and 272.

COURSE IN ENGINEERING PHYSICS

There is an increasing demand for men with an advanced knowledge of Mathematics and Physics who are capable of conducting investigations of a research character.

With a suitable training, openings in this field of work may be found in Research Laboratories of the Government and of Electric Corporations, in consulting work and in University appointments.

In view of these facts a course in Engineering Physics leading to the Degree of B.Sc. in Arts has been arranged.

It is open to capable students in Arts or Applied Science.

A student who has completed his Second Year in the Faculty of Applied Science and has received first or second class rank in Mathematics and Physics may join the course in Engineering Physics, as outlined below, subject to the approval of the Heads of the Departments of Electrical Engineering and Physics.

Third Year

Mathematics 5, 6 (as on page 166).
Physics 5A, 5B, 6B (*or* **8B**) (as on page 176).
Electrical Engineering 113, 114 (see page 254).

During the summer at the end of the Second Year, students must spend three months at an approved shop, radio, or research station.

Fourth Year

Mathematics 9 *or* **10** (as on page 167).
Physics 6A, 7A, 8A and 8B (*or* **6B**) (as on page 176).
Summer Thesis or Shop Work.

The student may now receive the degree of B.Sc. (Arts), with honours in Mathematics and Physics. In the Fifth Year the student should take selected subjects from the Fourth Year course in Electrical Engineering, as shown on page 75, and also Physics 9 and 10, and one of 11, 12, 13, 14, 17, as shown in the Arts Announcement, and proceed with research work and a thesis with a view to an M.Sc. degree.

The course must therefore require five years and may require six. During the last year (the sixth), opportunity may be afforded to act as demonstrator with a salary.

SUMMER SCHOOLS

Undergraduates are required to attend Summer Sessions as specified below. The work is set forth in detail under the subject numbers referred to.

Except as noted, classes are expected to begin on or about April 30th and close on May 27th preceding the regular session.

COURSE	Students entering Second Year		Students entering Third Year		Students entering Fourth Year	
	Subject No.	Page	Subject No.	Page	Subject No.	Page
Architecture	347	276	50	241	†50	241
Chemical Engineering	347	276	54, 55	242	...	...
Civil Engineering	347	276	354	277	361	277
Elect. Engineering	347	276	...	...	...	...
Mechanical Engineering	347	276	233, 234	*	...	...
Metallurgical Engineering	347	276	54, 55	242	267	266
Mining Engineering	347	276	354	277	294	272

†This school will be held in September, 1925, and will last a little over two weeks. Exact particulars as to dates, etc., must be obtained from the Head of the Department.

NOTE.—SPECIAL SUMMER SCHOOLS.

As it is seldom practicable for students admitted to advanced standing in McGill University from other colleges to attend the May Summer School preceding the work of the year to which they are admitted, the following arrangements have been made for such students, but it must be understood that they only apply to students who have not previously been in attendance in the Faculty of Applied Science.

(a) Students entering the Second Year are required to attend a special Summer School in Surveying which extends from September 14th to 26th, inclusive, preceding the work of the Session. Additional work may be required in the following year if necessary to cover the course.

(b) Students entering the Third Year of the courses in Chemical Engineering and Metallurgical Engineering are required to attend a Special Summer School in Chemistry which extends over a period of four weeks during the month of September preceding the work of the Session.

(c) Students entering the Third Year in the course in Mechanical Engineering should attend a Special Summer School held in September. This School may, however, in certain cases be replaced by other work which has received in advance the approval of the Head of the Department.

(d) Students entering the Third Year in the courses in Civil and Mining Engineering are required to attend a Special Summer School in Surveying from September 14th to 26th, inclusive, and in these courses further work in Surveying, to be specified by the Head of the Department, is required for a portion of the month of May following.

(e) Students entering the Third Year in the course in Electrical Engineering are required to submit evidence satisfactory to the Head of the Department that they have been employed for a time at least equivalent to one month of steady employment, in a first-class electrical shop during the vacation preceding their entrance into the Third Year.

(f) Students entering the Third Year or any subsequent year in the course in Architecture must submit evidence satisfactory to the Head of the Department that they have done summer work fully equivalent to the regular scheduled summer work omitted.

(g) Students entering the Fourth Year in the courses in Mining and Metallurgical Engineering are required to submit evidence that they have had practical experience in mining and metallurgical work at least equivalent in extent to the work done in the regular Summer Schools in these courses and should by correspondence in the preceding spring secure the approval of the Head of the Department concerned of the work which they propose to offer in place of the regular summer work.

*See Note (c) above.

SUMMER ESSAYS AND SUMMER READING

SESSION 1925-26

1. For Students entering the Second Year

132. All students entering the Second Year, except those in the course in Architecture (see below), will be required to read not less than three books from Group "A" and one book from Group "B" in the following list:—

"A"

Macaulay—Essays on Hampden, Walpole, Pitt, Chatham and Hastings.
No. 225, Everyman's Library.
J. M. Dent & Sons, Ltd. (55c.)

Strachey—"Eminent Victorians."
Chatto & Windus. ($2.25.)

Withers—"Poverty and Waste."
E. P. Dutton & Co. ($2.50) or Murray ($1.75.)

Farrand—"The Development of the United States."
Houghton Mifflin Company. ($2.00.)

Parkman—"LaSalle and the Discovery of the Great West."
Little, Brown & Co. (1 Vol. $2.00.)

"B"

Kipling—"Captains Courageous."
Doubleday, Page & Co. ($2.00.)

George Eliot—"The Mill on the Floss."
No. 325, Everyman's Library. (55c.)

Bennett—"Old Wives Tales."
Hodder & Stoughton, or Doran. ($2.00.)

Note.—Wells' "Outline of History" (unabridged edition) may be substituted for any three books on the above lists.

Students in the course in Architecture must read the following books:—

"Architecture"—Lethaby, W. R.
(Home University Library, W. Briggs, Toronto).

"Hypatia"—C. Kingsley.
Everyman's Library, No. 230.

Students in the course in Architecture must also either spend five weeks in the office of an architect or contractor, or prepare thirty-five reasonably large freehand sketches in any desired medium.

All students will be required to pass an examination in the summer reading at the opening of the session. A maximum of 100 marks will be allowed for this reading.

2. For Students entering the Third Year

Students entering the Third Year must either

(a) Follow a course of summer reading, *or*

(b) Prepare an essay.

133. (a) The summer reading required, except in the course in Architecture (see below), is, Ogg—"Economic Development of Modern Europe" ($3.50, Macmillan), on which an examination will be held at the opening of the session. The same number of marks are allotted for this reading as for the essay.

(b) The essay must in all respects follow the specifications laid down for essays submitted by students entering the Fourth Year, except that it may be shorter. All rules and regulations governing the Fourth Year essays, as set forth below, also apply to the Third Year essays (See Section 3.)

Students in Electrical Engineering or Mechanical Engineering who elect to write an essay and are not engaged during the summer on any engineering, scientific or industrial work which would afford a subject for an essay, may write on one of the following subjects:—

Electrical Engineering students.

The application of Electric Power to Industrial Establishments.

Mechanical Engineering students.

(1) Oil Fuel for Domestic Heating.
(2) Pulp and Paper Manufacture.
(3) Heavy Oil Engines.

Students in Mining Engineering, or Metallurgical Engineering, who are for any reason unable to write on some engineering work of which they have personal knowledge will be required to take the summer reading (a).

Students in the course in Architecture must either read the following books or submit an essay on a subject approved by the Head of the Department, viz.,

"A History of Everyday Things in England."
Part II. 1500-1799. Quennell.
B. T. Batsford, London.

"The Autobiography of Benvenuto Cellini."
Everyman's Library, No. 51.

The rules and regulations governing the Fourth and Fifth Years in Architecture also apply to the Third Year essay or reading in this Department. (See Section 3.)

Summer Essays must be handed in at the Dean's Office not later than 5 p.m. on Monday, October 12th.

Students in the course in Architecture must also either spend five weeks in the office of an architect or contractor, or prepare thirty-five reasonably large freehand sketches in any desired medium.

3. For Students entering the Fourth and Fifth Years

Students entering the Fourth Year, except those in the course in Architecture (see below), are required to prepare an essay during the summer, to be handed in at the Dean's office *not later than 5 p.m. on Monday, October 12th.*

The essays should be from 2,000 to 5,000 words in length in ordinary cases. They should be illustrated by drawings, sketches, and when desirable by photographs, specimens, etc., and must be written on paper of substantial quality and of a size approximately 8½ x 11 inches.

These essays are regarded by the Faculty as a very important part of the curriculum and a high standard will be exacted.

The essays will be judged by their subject matter, literary style and the evidence which they show of thoughtful and careful preparation.

The *most acceptable subject for an essay* is a critical description of the work on which the student is engaged during the summer, but a description of any engineering, scientific, or industrial work with which he is familiar will be accepted. Students who secure summer engagements in engineering work should take advantage of every opportunity to gather material suitable for an essay.

No essay compiled from books alone will be accepted unless the student has obtained in advance the written approval of the head of his department as to the subject to be treated. Information obtained from books and other sources may, however, be quite properly used or even quoted verbatim, provided full acknowledgment be made and all quotations enclosed in quotation marks. Similarly, drawings, blue prints, etc., may be included in the essay, provided full acknowledgment is made.

All essays will become the property of the department concerned and will be filed for reference. Students are, however, permitted to submit duplicate copies of their essays in competition for the students' prizes of the Engineering Institute of Canada, or of the Canadian Institute of Mining and Metallurgy.

Students in Electrical Engineering, or Mechanical Engineering, who are not engaged in work affording suitable material for an essay, may write on one of the following subjects:—

Electrical Engineering students.

(1) Generation of Electric Power.
(2) Long Distance Power Transmission.
(3) Distribution of Electric Power.
(4) Electrification of Railways.

Mechanical Engineering students.

(1) Power Costs.
(2) Central Station Heating.
(3) Methods of Increasing Production in Manufacturing.
(4) Exhaust Steam Turbines using Steam at Pressures below Atmospheric.

Students in the course in Architecture must either read the following books, or submit an essay on a subject approved by the Head of the Department, viz.,

Fourth Year.

"A History of Everyday Things in England."
Part II. 1500-1799. Quennell.
B. T. Batsford, London.
"The Autobiography of Benvenuto Cellini."
Everyman's Library, No. 51.

Fifth Year.

"Seven Lamps of Architecture."
Ruskin. Everyman's Library, No. 207.
"The Pleasures of Architecture."
C. & A. Williams Ellis.
Jonathan Cape Ltd., London. ($3.50)

Students who take the Reading will be required to pass an examination in the same at the opening of the session. The same number of marks will be allotted for this reading as for the essay.

Summer Essays must be handed in at the Dean's Office not later than 5 p.m. on Monday, October 12th.

In addition to this reading, or essay, students in the course in Architecture must either spend five weeks in the office of an architect or contractor, or prepare thirty-five reasonably large freehand sketches in any desired medium.

SUBJECTS OF INSTRUCTION

The following courses are subject to such modifications during the year as the Faculty may deem advisable.

DEPARTMENT OF ARCHITECTURE

PROFESSORS:— { RAMSAY TRAQUAIR (in charge of Department). PERCY E. NOBBS (in charge of Design).

ASSISTANT PROFESSOR:—W. E. CARLESS.

SPECIAL INSTRUCTOR:—E. DYONNET.

SPECIAL LECTURERS:— { P. J. TURNER. LESSLIE R. THOMSON.

A.—Design

The course in Design is divided into four classes (A, B, C and D), intended to be taken in the Second, Third, Fourth and Fifth Years respectively. Advanced or backward students may be allotted to design classes to suit their individual requirements irrespective of their standing in other subjects, but good standing in Class D must be obtained prior to receiving the degree.

1. CLASS A. Simple problems in composition of a monumental nature, not involving difficulties of plan.
2. CLASS B. The design of domestic and small public buildings.
3. CLASS C. The design of public buildings.
4. CLASS D. Problems involving the plan, structure and lay-out of complex buildings and groups of buildings. The diploma design for graduation is done in the second term.—Prof. Nobbs.

B.—Aesthetic

The theoretical courses are intended to develop a sense of critical judgment in the student, emphasizing the fundamental principles of composition and design.

5. THE ELEMENTS OF ARCHITECTURE (24 lectures).

The five orders of Vignola, pedestals, pediments, intercolumniation and superposition of orders, arches, vaults, domes, roofs, openings, etc. —Mr. Carless.

6. THE ELEMENTS OF COMPOSITION (24 lectures).

Analogies in the arts; principles of composition, mass unity, balance, character, scale, proportion; symmetric and asymmetric grouping; vertical and horizontal treatments; composition in plan, natural and axial; appreciation of intrinsic qualities of materials, values of textures, etc. —Mr. Carless.

7. Theory of Design (24 lectures).

(a) *Principles of Aesthetic:*—The history of æsthetic enquiry, perception ,emotion, pleasure, pain and expression; the art impulse; beauty defined, the work of art; subject, emotional content and medium; the criteria.

(b) *Application of Aesthetic:*—Pure design; the function of ornament, "motif," the material treatment, the placing and classifications of ornament; the evolution of functional forms, analysis of conventional forms; the uses of scale and proportion; corrections and refinements.

Students will read selected passages from the works of Santayana, Yrjö Hirn, Croce, Marshall, Geoffrey Scott, Baldwin Brown and Blomfield, etc.—Professor Nobbs.

8. Theory of Planning (24 lectures).

(a) *Elements of Planning:*—Dimensions, arrangements, scales, aspect, prospect, light, the structural bay, unit planning, axial planning.

(b) *Domestic Planning:*—Stables, cottages, housing, residences; country houses and gardens; apartment houses.

(c) *Public Buildings:*—Churches, halls, theatres, schools, libraries, hospitals, baths, fire stations, municipal buildings, etc.

Note:—The examples studied are selected from current architecture.—Prof. Nobbs.

Courses 7 and 8 will be taken in alternate years until further notice.

9, 10, 11 and 12. Ornament and Decoration (48 lectures and 48 drafting periods extending through two years).

9. Decorative Heraldry. The place of heraldry in the arts; the laws of heraldry, heraldic art of different periods; modern practice and tendencies; symbolism and significant ornament.—Prof. Traquair.

Text-book:—Decorative Heraldry, Eve. *Reference:*—The Art of Heraldry, Fox Davies.

10. Ornament in Form. The design of plaster work, terra cotta, stone carving, architectural sculpture, wood carving and furniture is dealt with as the evolution of form in distinctive materials, influenced incidentally by the prevailing taste of different periods.—Prof. Traquair.

Reference Books:—Plastering, Plain and Decorative, Millar; The Art of the Plasterer, Bankart; Mediæval Figure Sculpture in England, Prior.

11. Metal Work. The design of wrought and cast iron, bronze, copper, brass, pewter, silver, gold and jewellery is dealt with historically and as the result of the methods of workmanship.—Prof. Traquair.

Reference Books:—English and Scottish Wrought Iron Work, Murphy; Ironwork, Starkie Gardner; Leadwork, Lethaby.

12. Color Decoration. Stained glass, mosaic of various kinds, inlays, the use of colored materials in external and internal design, mural decoration, and the analysis and construction of pattern.—Prof. Traquair.

Reference Books:—Vitraux, Merson; Windows, Day.

Courses 9 and 10 and 11 and 12 will be taken in alternate years.

C.—History

14. Ancient and Classical Architecture (48 lectures).

The architecture of the ancient Egyptians, Chaldæans, Assyrians and Persians; the Minoan civilization; architecture of the Dorian and Ionian Greeks, with special attention to the refinement of form in Hellenic art; the architecture of Rome and Byzantium to the fall of the Byzantine Empire.—Prof. Traquair.

Text-books:—Banister Fletcher's History of Architecture; Anderson and Spier's Architecture of Greece and Rome.

15. Mediæval Architecture (48 lectures).

The rise of the Romanesque schools, from the decline of the Western Roman Empire to the XI. century; the evolution of ecclesiastical architecture in France and England to 1500 A.D.; the Gothic schools of Europe and the evolution of military and civil architecture. Prof. Traquair.

Text-book:—Power's Mediæval Architecture.

16. Renaissance Architecture (48 lectures).

The beginning of the Renaissance in Italy and its influence on architecture from 1400 A.D. to 1600 A.D.; the Renaissance in France from Francis I. to the Revolution; the earlier and later phases of the Renaissance in England and English architecture during the XVIII. century.—Prof. Traquair.

Text-books:—Anderson's Italian Renaissance Architecture; W. H. Ward's French Renaissance Architecture; R. Blomfield's Short History of Renaissance Architecture in England.

17. Modern Architecture (48 lectures).

The end of the Renaissance and the classic revival in England; scholarly architecture; the "Gothic Revival"; the influence of Pugin, Ruskin and Morris; the "Arts and Crafts" movement; the eclectic schools; Shaw and the free classicists; the progress of art in Europe during the XIX century; the classic schools and "official" architecture; the neo-grec movement in France; the national revivals, the secession and art nouveau; the colonial architecture of North America, Spanish, French and English; the modern schools and the present position.—Prof. Traquair.

D.—Science

MATHEMATICS—Trigonometry, first term; Algebra second term, to be taken in First Year Arts. For full particulars, see page 165. Geometry (191), Mechanics (194). See page 259.

44 and 45. PHYSICS AND LABORATORY (48 lectures and 24 periods).

The instruction includes a fully illustrated course of experimental lectures on the general principles of physics, embracing the laws of energy, heat, light, electricity and sound. Dr. Eve.

346, 347 and 348. SURVEYING. (Full course: 4 weeks field school, 48 lectures and 24 draughting periods, see page 276.

22 and 23. HYGIENE OF BUILDINGS (24 lectures in first term, 12 lectures and working out of one graphical problem in second term).

22. Light and air, water, sanitary plumbing, sewage disposal. First term.—Dr. Starkey.

23. The heating and ventilation of buildings. Second term.—Prof. McKergow.

E.—Construction

The Second Year work covers the ordinary building trades and detailing where calculations of a complicated kind are not involved. The Third Year work deals with structural problems involving calculation, while in the Fourth Year problems in structural design are worked out.

24 and 25. BUILDING CONSTRUCTION AND BUILDING DETAIL (24 lectures, 48 draughting periods).

Building materials, brickwork, masonry, carpentry, roofing, etc.; joinery of doors, windows, etc., and the finishing trades, such as plastering, painting and plumbing; underpinning, shoring, centering and forms. General working drawings are prepared, and building works in progress are visited.—Mr. Turner.

26 and 27. ARCHITECTURAL ENGINEERING I and ARCHITECTURAL ENGINEERING (Draughting) I (48 lectures and 24 draughting periods). Graphical methods of calculating and the strength of materials employed in construction.—Mr. Thomson.

28 and 29. ARCHITECTURAL ENGINEERING II A AND ARCHITECTURAL ENGINEERING (Draughting) II A (24 lectures and 48 draughting periods).

Theory and practice of reinforced concrete; foundations and retaining walls.—Mr. Thomson.

30 and 31. ARCHITECTURAL ENGINEERING II B AND ARCHITECTURAL ENGINEERING (Draughting) II B (24 lectures and 48 draughting periods).

Rivets and riveting, symmetrical and eccentric connections; the design of structural steel, with examples of floors, columns, beams, office buildings and plate girders; the theory of arch action with especial reference to examples in masonry.—Mr. Thomson.

Architectural Engineering II A, with Architectural Engineering II B, with the draughting periods allotted to each, will be taken until further notice by the Third and Fourth Years together, and are given in alternate years.

F.—Architectural Practice

131. English Composition (24 lectures with exercises).

Instruction is provided with the Applied Science First Year classes. (See page ..).—Prof. Latham.

32. Professional Practice (24 lectures with exercises).

Structure of specifications and general clauses; specifications for all trades; conditions of contract; agreements; building by-laws; estimates; reports; professional ethics.—Mr. Turner.

175. Engineering Law (24 lectures).

Instruction is provided with the Applied Science Fourth Year classes. (See page 259.)

G.—Drawing

33, 34, 35, and 36, Architectural Drawing (100 periods of three and four hours).

The work in this course is in direct connection with the lectures in History and Architecture.

33. Drawings of the Classic orders, showing their application to other elements in architectural design, are prepared from the large models in the museum and from documents.—Mr. Carless.

34. Drawings of the Greek orders are prepared with special reference to their structural development and design. Classic buildings are studied from documents in connection with the lectures on Classic Architecture.—Prof. Traquair.

35. In connection with the lectures on Mediæval Architecture, sketch plans, elevations and details of important mediæval buildings are set up from documents.—Prof. Traquair.

36. In connection with the lectures on the Architecture of the Renaissance, important buildings are studied by drawing and sketching. —Prof. Traquair.

37. HISTORICAL DRAWING. The advance study of one or more historical buildings by means of large scale drawings.—Prof. Traquair.

38, 39, 40, 41. FREEHAND DRAWING (100 periods).

Drawing in pencil or charcoal from casts of architectural ornament, architectural fragments and parts of the figure.—Mr. Dyonnet.

18. ARCHITECTURAL GEOMETRY I (24 lectures and 24 periods).

Descriptive geometry; isometric and axometric projection; shades and shadows; developed surfaces and intersection of solids.—Mr. Carless.

19. ARCHITECTURAL GEOMETRY II (24 lectures and 24 periods).

The practical application of descriptive geometry to masonry and joinery; perspective; the rendering of perspective drawings.—Mr. Carless.

42 and 43. MODELLING (one period a week of two hours, extended over the Fourth and Fifth Years).

The student first studies form directly from nature, and later on conventionalizes the forms with which he has become familiar for decorative purposes. The Architectural museum affords many examples from different periods of the adaptation and abstraction of natural motifs in ornament. They are used to show the spirit in which to work out ornament, and are not copied directly. Models of design on which the students are engaged are also prepared, and casting is taught.—Mr. Dyonnet.

46, 47, 48, 49. An essay on an historical or theoretical subject is required each year from all students excepting those of the First Year. This essay is to be prepared during the session.

50. SUMMER WORK.

A, B & C. During the vacation following the close of the First, Second and Third Years, the students in Architecture are required to read and be prepared to pass an examination on a selected theoretical, æsthetical, or historical architectural work, and in addition to this, to spend at least five weeks in the office of some architect or contractor; the period of such employment to be certified by a letter from the employer. Students who for any reason approved by the Head of the Department find it impracticable to do office work, may submit thirty-five reasonably large free-hand sketches, rendered in any desired medium as an equivalent.

A summer school in surveying is taken in the four weeks following the final examinations of the First Year.

D & E. A summer school in sketching and measuring is attended by all students between the Second and Third and between the Third and Fourth Years, in the latter part of September, for the study of buildings in Canada and in the United States.

For summer reading, see pages 232 to 235.

DEPARTMENT OF CHEMISTRY

DIRECTOR:—R. F. RUTTAN.

PROFESSOR OF INORGANIC CHEMISTRY:—F. M. G. JOHNSON.

PROFESSOR OF PHYSICAL CHEMISTRY:—OTTO MAASS.

PROFESSOR OF ORGANIC CHEMISTRY:—G. S. WHITBY.

ASSOCIATE PROFESSOR:—NEVIL NORTON EVANS.

ASSISTANT PROFESSORS:—
- W. H. HATCHER.
- A. R. M. MCLEAN.

DEMONSTRATORS:—
- G. W. HOLDEN.
- K. W. HUNTEN.
- V. SIVERTZ.
- E. W. R. STEACIE.
- W. M. BARNES.
- A. B. A. EVANS.
- G. L. MATHESON.
- H. P. STOCKWELL.
- C. R. WEST.

Second Year Lectures.

51. GENERAL CHEMISTRY. The course includes the history, occurrence, properties and methods of preparation of the most important elements and compounds, with their industrial applications; classification; general laws and principles; and the fundamental theories of the science; together with a brief discussion of scientific method. Three hours a week for all students in Engineering.—Prof. Evans.

Text-book:—Macpherson and Henderson, General Chemistry.

54. INORGANIC QUALITATIVE ANALYSIS. A course dealing with the principles of analytical chemistry—nature of solutions, precipitation, etc., explanatory of the work done in the laboratory (course 55). Five lectures a week for the first three weeks of the summer session.—Prof. Evans and Mr. K. W. Hunten.

Text-book:—N. N. Evans, Notes on the Theory of Qualitative Analysis. *Reference:*—Stieglitz, Qualitative Chemical Analysis.

Second Year Laboratory.

52. GENERAL CHEMISTRY LABORATORY. Practical work designed to accompany and illustrate the lectures of course 51. The course includes the construction and use of ordinary apparatus, the preparation and study of important elements and compounds, qualitative analysis, and simple quantitative determinations, both gravimetric and volumetric, including combining weights, standardization of solutions, hardness of water, etc. One period for all students of Engineering.—Professor Evans and Messrs. Barnes, Sivertz and Stockwell.

55. Inorganic Qualitative Analysis Laboratory.

A course of laboratory work, including preliminary experiments on known substances, the examination of unknown mixtures for base and acid radicals, methods of bringing substances into solution, and a study of the chemical reactions involved in these processes. Four weeks in the Summer School for students of the Chemical and Metallurgical Engineering courses.—Professor Evans and Mr. Hunten.

Text-book:—W. A. Noyes, Qualitative Analysis.

Third Year Lectures.

56. Organic Chemistry. (Arts 2.) A course in general elementary organic chemistry. Three lectures a week during the first term and two during the second term.—Dr. Ruttan.

Text-books:—Perkin and Kipping's *or* Remsen's Organic Chemistry.

58. Physical Chemistry. (Arts 4.) An introductory course following the development of chemical theory, including vapour densities, molecular weights, the mass law and the phase rule.

Two lectures a week during the first term and one per week in second term.—Dr. Maass.

Text-book:—Theoretical and Physical Chemistry, Bigelow.

59. Inorganic Qualitative Analysis. A course explanatory of the work done in the laboratory. One lecture a week in the first term for Mining Engineers only.—Professor Evans and Mr. Hunten.

Text-book:—N. N. Evans, Notes on the Theory of Qualitative Analysis.

61. Inorganic Quantitative Analysis. A course on the general principles involved in quantitative analysis. One lecture a week during the first term of the Third Year.—Dr. Johnson.

Text-book:—Cumming and Kay. *For reference:*—Treadwell's Quantitative Analysis.

Third Year Laboratory.

57. Organic Chemistry. (Arts 2.) A course on the preparation, detection and analysis of the commoner organic compounds. Two periods a week, in the second term. Drs. McLean and Whitby, with Messrs. Evans, Matheson and Holden.

Text-book:—Norris' Experimental Organic.

60. Inorganic Qualitative Analysis. A course adapted to the requirements of Mining Engineers. Two periods a week in the first term. Professor Evans with Messrs Hunten and Holden.

Text-book:—W. A. Noyes, Qualitative Analysis.

62. Inorganic Quantitative Analysis. (Arts 8.) An extensive course on gravimetric and volumetric method. Three periods per week for Chemical Engineers (Course II.).—Dr. Johnson and Messrs. Steacie and Hunten.

Text-book:—Cunningham and Kay, Quantitative Analysis.

Fourth Year Lectures and Laboratory.

73. Food Chemistry. (Arts 13.) A course on the constitution and analysis of proteins, carbohydrates, fats and allied substances. The course also includes the estimation of food values, enzyme action. A course of one lecture per week and two laboratory periods during the second term. The laboratory work comprises the study of typical foodstuffs, enzyme action and includes the use of the calorimeter, polariscope and refractometer in organic analysis.—Dr. Ruttan, Dr. Whitby, Dr. MacLean, Messrs. Evans, Holden and Matheson.

Text-book:—Woodman's Food Analysis.

*64. Advanced Organic Chemistry. (Arts 5.) The lectures will deal with the more complicated classes of carbon compounds, such as the carbohydrates, terpenes and alkaloids; the more complicated types of reaction, such as the Grignard reaction, the Claisen reaction, the reaction of aliphatic and hydroaromatic diketones; various theoretical conceptions such as geometrical isomerism, partial valency, the strain theory. Two lectures per week.—Dr. Whitby.

Text-books:—Perkin and Kipping's Organic Chemistry and Moureu's Organic Chemistry. *For reference:*—Recent Advances in Organic Chemistry, Stewart; Advanced Organic Chemistry, Cohen; Organic Chemistry of Nitrogen, Sidgewick.

*65. Advanced Organic Laboratory. (Arts 5.) The course will comprise the preparation of a number of representative organic compounds of a more complicated nature than those prepared in the Third Year, including dyes, nitro derivatives and examples of reaction, such as Perkin's, Friedel and Craft's, Skraup's and Grignard's. It will also comprise the quantitative determination of the elements and of typical groups in organic compounds; and also the identification of unknown organic substances. Four periods a week in the first term and two in the second.—Drs. Whitby and MacLean and Messrs. Evans, Holden and Matheson.

The student is required during this course to take a complete course in gas analysis under Dr. Johnson.

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*Subjects marked with a star are open to graduates as well as undergraduates.

*66. Physical Chemistry. (Arts 7.) Two lectures a week on general physical chemistry, including the kinetic theory, thermo-chemistry, electron theory in chemistry, chemistry of radioactive substances, etc.

Students will be required to work problems dealing with the subject matter of the lectures.

Two laboratory periods a week in the second term are devoted to typical physico-chemical measurements and methods of analysis.—Dr. Maass and Dr. Morrison.

Text-books:—Washburn's Principles of Physical Chemistry; Findlay's Physico-Chemical Measurements.

For reference:—Ramsay's Text-books of Physical Chemistry; Lewis and Randall, Thermo-dynamics.

*67. Inorganic Laboratory. (Arts 8.) The lectures deal with the special methods of analysis of iron and steel, alloys and water. One lecture and three periods a week in the first term and four periods in the second.—Dr. Johnson and Messrs. Steacie and Hunten.

The laboratory work is a continuation of courses 61 and 62. A course in gas analysis is given in the second term, as well as studies in colloid chemistry and some advanced inorganic preparations.

For reference:—Lord and Demorest, Quantitative Analysis; Treadwell's Quantitative Analysis; Blair, Chemical Analysis of Iron; Ibbotson, Analysis of Steel Works Materials.

68. Industrial Chemistry, Inorganic. (Arts 14.) A course, both theoretical and descriptive, on the more important inorganic chemical industries. Two lectures per week in the first term. Special lectures are given in this course by chemical engineers from outside the University.—Dr. Johnson.

69. Industrial Chemistry, Organic. (Arts 15.) This course is given during the second half of the session, and includes the chemistry of paper and pulp, sugar, starch and glucose, soap and fats, distillation of wood and the purification of the products, etc. Two lectures per week in the second term. This course consists of special lectures by chemical engineers from the city and district who are experts in one or other of the industries, together with members of the staff.

70. Applied Electro-Chemistry. (Arts 12.) The laws of electrolysis and of solutions are studied from the standpoint of the osmotic theory. Primary and secondary batteries, electro-plating, polarization and the preparation and electro-chemical behaviour of the rarer elements used in incandescent lamps are discussed. The more important technical processes are studied and typical substances prepared in the laboratory. Two lectures in the first term.—Dr. Maass.

For reference:—Allmond, Applied Electro-chemistry; Blount, Practical Electro-chemistry.

71. Inorganic Quantitative Analysis. A laboratory course specially designed for Mining Engineers. Four periods a week in the first term.—Dr. Johnson and Messrs. Steacie and Hunten.

Text-book:—Lord and Demorest, Quantitative Analysis. *For reference:*—Olsen's Quantitative Analysis.

*72. Advanced Inorganic Chemistry. (Arts 6.) A course of lectures on inorganic chemistry, discussing the elements and their compounds in accordance with the general principles of physical chemistry. Two lectures a week throughout the session.—Dr. Johnson.

74. History of Chemistry. (Arts 9.) A short course dealing with the development of chemistry from the historical standpoint. One lecture a week in the second term.—Dr. Hatcher.

*75. Colloid Chemistry. (Arts 16.) Two lectures per week and a total of ten laboratory periods in the second term.—Dr. Johnson.

DEPARTMENT OF CIVIL ENGINEERING AND APPLIED MECHANICS

Professors:— H. M. Mackay. E. Brown. R. de L. French.

Assistant Professors:— R. E. Jamieson. G. J. Dodd.

Lecturers:— F. M. Wood. ————.

Assistant in Charge of Testing Laboratory:—S. D. MacNab.

Demonstrator:—A. Campbell.

First Year.

80. Engineering Problems. Application of mathematics to scientific and engineering problems of a simple nature, with special attention to the formulation of scientific ideas in mathematical form. Required of all engineering students. One hour per week.—Prof. E. Brown and Staff.

Second Year.

81. Materials of Construction. Manufacture and properties of cast iron, wrought iron, crucible, bessemer and open hearth steel. Course of prescribed reading with occasional conferences.

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*Courses marked with a star are open to graduates as well as undergraduates.

Required of all engineering students.—Prof. Mackay and Mr. Sproule.

Text-book:—Spring, Non-Technical Chats on Iron and Steel.

83. MECHANICS. The general principles of statics and of the dynamics of a particle are developed in the lectures, and numerous examples illustrating the application of mechanics to engineering problems are worked out.

The course includes equilibrium of forces; friction; force and funicular polygons; bending moment and shear; forces in framed structures; hydrostatics; relative velocity; variable motion (straight line and curvilinear); simple harmonic motion; pendulums, springs; inertia forces in machines; crank effort curves; flywheels, etc.

The mathematical courses in calculus are taken concurrently and calculus methods are used freely. Two lectures and two hours problems per week.—Prof. Brown and Mr. Jamieson.

Reference books:—Morley, Mechanics for Engineers; Poorman, Applied Mechanics; Fuller and Johnston, Applied Mechanics, Vol. I.

Third Year.

86. MECHANICS. The work of the Second Year course in mechanics is extended, and the dynamical equations for the motion of a rigid body in two dimensions are deduced. Numerous examples are worked in detail, including problems on flywheels, kinetic energy of bodies having translation and rotation, oscillation of a rigid body about a fixed axis, impulse, etc. The elementary principles of the gyroscope are considered. Two lectures per week, first term.—Prof. Brown.

Reference book:—Worthington, Dynamics of Rotation.

87. STRENGTH OF MATERIALS. This course deals with the fundamental principles of the strength of materials. It includes the following:—Stress, strain, resilience, and the elastic properties of materials used in construction; bending moment and shearing force diagrams; strength, curvature, and deflection of beams; continuous beams; cantilever beams and the like; simple problems on rolling loads; reinforced concrete beams; the strength of shafting; spiral springs; columns; bending combined with tension or compression; elementary consideration of compound stresses; distribution of shearing stress on various sections, etc.

Required of all engineering students. Two lectures per week during the session.—Professor Brown and Mr. Jamieson.

Text-book:—Morley, Strength of Materials.

88. Strength of Materials Laboratory. The work illustrates the principles of the lecture course in strength of materials (87), and includes the following:—Tension tests of various materials; stress-strain diagrams by automatic recorders and by extensometers and scales; deflection of beams, torsion of shafts; experiments on spiral springs and torsional oscillations of wires; the moment of inertia of flywheels; determination of Young's modulus; test of Portland cement; demonstrations on the large testing machines, on the breaking of timber and reinforced concrete beams and small columns, the compressive strength of concrete, bricks, mortars, etc. Three hours per week, second term.—Prof. Brown, Mr. Jamieson, Mr. Campbell and Mr. MacNab.

89. Foundations and Masonry. Borings; bearing power of soils; piles and pile driving; concrete piles; footings; grillages, underpinning; foundations under water, cofferdam, open dredging, pneumatic and freezing processes; estimation of quantities from drawings; estimates of costs.

Required of Civil Engineering students. One lecture per week session; three hours problems per week, second term.—Prof. MacKay, Mr. Dodd.

Text-book:—Foundations of Bridges and Buildings, Jacoby and Davis.

90. Structural Engineering. Problems in the design of beams, plate girders, columns, roof trusses, knee bracing, etc.; working drawings; estimates of quantities. Required of students in Courses II, III, V, VI and VII. One lecture and three hours problems per week, second term.—Prof. Mackay and Mr. Jamieson.

Reference books:—Ketchum's Structural Engineer's Handbook; Ketchum's Mill Buildings; Bishop's Structural Drafting and Design of Details; Carnegie, Pocket Companion.

92. Railway Engineering. The locomotive and its work; locomotive and grade problems; effect of distance, rise and fall and curvature on train mile costs; estimate of probable receipts and expenditures; economics of location, reconnaissance, preliminary, and location surveys; turnouts. Required of Civil Engineering students. Two hours per week, first term.—Prof. ————.

93. Railway Engineering. The proper location of a railway, map, profile, earthwork, mass diagram, overhaul, velocity profile, bill of material and cost estimate of same; detailing of switches and complicated lay-outs and bill of track material. Required of Civil Engineering students. Six hours per week, first term.—Prof. ————.

97. HYDRAULICS. The fundamental principles of hydraulics are considered and applied to problems on the discharge of orifices, notches, weirs, pipes and open channels under varying conditions. The theory of impact of jets and its application to turbines is also dealt with. Required of Civil Engineering students in the Third Year and of Mechanical and Electrical Engineering students of the Fourth Year. Two hours per week, first term.—Prof. Brown.

Text-book:—Hydraulics and Its Application, Gibson.

98. HYDRAULIC LABORATORY. The course is illustrative of the principles considered in course 97, and is taken concurrently. The work includes the following experiments:—Measurement of discharge from orifices, notches and pipes, both straight and bent, to determine hydraulic coefficients; pressure of jets impinging on vanes; tests of Venturi meter, hydraulic ram, Pelton wheel, Francis and propellor turbines, etc. Three hours per week, first term.—Prof. Brown and staff.

82. SANITARY SCIENCE. Basic principles of sanitation underlying the design of works for water supply, sewerage, the heating, lighting and ventilation of buildings, etc. Alternative with Map Projections 351. Four hours per week, first term.—Dr. Starkey.

85. HIGHWAY ENGINEERING. Vehicular traffic and its requirements; methods of financing; economics of location; surveys; distance, grade and curvature; drainage; earthwork; paving materials, manufacture and use; maintenance; bridges, culverts, sidewalks and other accessories; designs and estimates. Two lectures and six hours laboratory per week, second term.—Prof. French.

Text-book:—Agg's Construction of Roads and Pavements.

Fourth Year.

94. THEORY OF STRUCTURES. The analysis of statically determinate framed structures under fixed and moving loads; distortion of framed structures; swing spans; braced arches and arched ribs with two and three hinges; hingeless arches in concrete and reinforced concrete; frames with redundant members.

Required of Civil Engineering students. One lecture and three hours problems per week, first term; two lectures and six hours problems per week, second term.—Prof. Mackay, Mr. Jamieson.

Reference books:—Johnson Bryan and Turneaure's Modern Framed Structures.

95. Strength of Materials. The course includes the following:—The bending and deflection of beams loaded and supported in any manner; deflection due to shear; principle of work applied to deflection of beams, and statically indeterminate problems; bending of curved bars, and of unsymmetrical sections; elastic strains; relation between elastic constants; strength of thick shells; earthwork theories; the design of floor and column systems for reinforced concrete buildings (including a critical study of standard specifications); retaining walls, etc.

Required of Civil Engineering students. Two lectures per week during the first term, and one per week during second term, with the equivalent of one-half laboratory period per week throughout the session at times appropriate to the progress of the course.—Prof. Brown.

Text-books:—Strength of Materials, Morley; Reinforced Concrete, Taylor and Thompson, or Reinforced Concrete Construction, Vols. II and III, Hool, or Reinforced Concrete Handbook, Hool and Johnson.

96. Bridge Design. The reason governing the selection of a particular type of bridge, discussion of the loads to which the bridge will be subjected, calculation of the stress in the several members; determination of the section areas and forms of the members; design of the connections; preparation of complete drawings.

Required of students in Civil Engineering. Two lectures and six hours drafting per week.—Prof. Mackay and Mr. Dodd.

Reference books:—Kirkham's Structural Engineering; Ketchum's Structural Engineer's Handbook; Waddell's Bridge Engineering.

96a. Bridge Design. A slightly briefer course than 96. Required of students taking the Municipal alternative.—Prof. Mackay and Mr. Dodd.

99. Hydraulic Machines. The course deals mainly with the development of the modern turbine and centrifugal pump and includes the following general topics:—Application of the principles of hydraulics in explanation of the functions of the various parts of the machines; special problems encountered under different conditions; characteristics of different types and method of interpreting results of tests on small models; essential features and mechanical details of typical turbines and pumps; principal hydraulic formulæ underlying design; the hydraulic accumulator; inertia effects in reciprocating machines, etc. Two hours per week, second term.—Prof. Brown.

Reference books:—Hydraulics and Its Applications, Gibson; Water Power Engineering, Mead; Proceedings of Engineering Societies.

100. HYDRAULICS AND LABORATORY. A short course embodying the hydraulic principles outlined under courses 97 and 98 will be given in the first term. There will be one lecture per week, and six or more laboratory periods at hours to be arranged. Required of Mining, Metallurgical and Chemical Engineering students of the Fourth Year.

Text-book:—Hydraulics, King and Wisler.

101. MUNICIPAL ENGINEERING. Fundamental principles of water supply, sewerage, sewage disposal, highway engineering and the treatment of garbage and rubbish. Required of Civil Engineering students not taking Municipal alternative. Two lectures per week session; three hours problems per week, second term.—Prof. French.

Text-books:—Turneaure and Russell's Public Water Supplies; Metcalf and Eddy's Sewerage and Sewage Disposal.

102. WATER SUPPLY AND SEWERAGE.

(a) *Water Supply.* Quantity, quality and pressure; rainfall and evaporation; run-off, pumping machinery; storage; dams, aqueducts, distribution systems, etc.; appurtenances; purification systems; fire service; construction materials and methods; designs and estimates.

(b) *Sewerage.* Quantity of sanitary sewage and of storm water; sewerage mains and appurtenances; construction methods and materials; designs and estimates.

(c) *Sewage Disposal.* Characteristics of sewage; disposal by dilution; screening and sedimentation; sludge; bacterial methods; costs and results; designs and estimates. Required of students taking Municipal alternative. Three lectures and six hours problems per week.—Prof. French.

Text-books:—Turneaure and Russell's Public Water Supplies; Metcalf and Eddy's Sewerage and Sewage Disposal.

103. WASTE DISPOSAL. Characteristics of civic wastes; garbage, rubbish and ashes; disposal methods, dumping, land treatment, incineration, reduction; economic aspects; designs and estimates. Required of students taking Municipal alternative. One hour per week, first term.—Prof. French.

Text-book:—Herring and Greeley's Collection and Disposal of Municipal Refuse.

104. CIVIC ADMINISTRATION. This course is designed to emphasize the connection between the work of the municipal engineer and other civic activities. Such subjects as civic government and finance, education, reaction and charities and correction are discussed, as well as town planning and other engineering work of minor importance not covered in other courses. Required of students taking Municipal alternative. One hour per week, first term.—Prof. French.

Text-book:—No regular text-books are prescribed, but free use is made of various Government bulletins and of current periodical literature.

DEPARTMENT OF DESCRIPTIVE GEOMETRY AND FREEHAND DRAWING

ASSOCIATE PROFESSOR:—HENRY F. ARMSTRONG.

DEMONSTRATORS:— J. R. WINDSOR. PETFORD. J. F. KELLY.

This Department provides a general course in drafting office methods and a training in the groundwork necessary to prepare the student for the work required in the Engineering courses of the Third and Fourth Years. The accurate use of drawing instruments is practised and study is made of the various projection methods commonly employed. The problems in Descriptive Geometry are especially designed to develop the power of mentally picturing unseen objects and grasping groups of details.

First Year.

211. MECHANICAL DRAWING. Instruction in the use of drawing instruments and materials, dimensioning, conventions and standards; preparation of working drawings and tracings of machine details and the detailing of assembly drawings. Required of all Engineering students. Six hours per week.—Professor Armstrong and staff.

341. DESCRIPTIVE GEOMETRY. Geometrical methods; plane figures; areas; paths of points moving in planes, etc.; orthographic projections of points, lines, plane figures and solid objects; shadows, etc.

Three hours per week.—Prof. Armstrong.

Text-books:—Geometrical Drawing, by H. F. Armstrong; Descriptive Geometry, by H. F. Armstrong.

342. FREEHAND DRAWING. The object of this course is to train the eye to observe and the hand to record the essential characteristics and proportions of objects by means of sketches and diagrams of machines, etc., and to prepare dimensioned sketches from which to make scale drawings.

One hour and a half per week.—Prof. Armstrong.

343 LETTERING. Types and titles such as are chiefly in use in drafting offices, including single-line, block and Roman lettering, and stencils.

One hour and a half per week.—Prof. Armstrong.

345. DESCRIPTIVE GEOMETRY AND PERSPECTIVE. Intersections of surfaces; intersecting planes; tangent planes; axometric, including isometric projections; perspective projection.

Three hours per week.—Prof. Armstrong.

Text-book:—Descriptive Geometry, Henry F. Armstrong.

DEPARTMENT OF ELECTRICAL ENGINEERING

PROFESSOR:—L. A. HERDT.

ASSOCIATE PROFESSOR:—C. V. CHRISTIE.

ASSISTANT PROFESSORS:—E. G. BURR. G. A. WALLACE.

DEMONSTRATORS:—F. S. HOWES. W. H. SCHIPPEL.

111. ELEMENTS OF ELECTRICAL ENGINEERING, for Third Year students in Mechanical Engineering and Fourth Year students in Chemical, Civil, Metallurgical and Mining Engineering.

A general course in electrical engineering, treating of the laws of electro-magnetism; continuous and alternating current flow in various circuits; characteristics of direct and alternating current machinery; the fundamental principles of electric lighting, power distribution and electric traction. Two hours per week.—Mr. Wallace.

111a. A shorter course similar to above for students in Mining. One hour per week.—Mr. Wallace.

Text-book:—Gray's Principles and Practice of Electrical Engineering.

112. ELECTRICAL ENGINEERING LABORATORY, for Third Year students in Mechanical Engineering and Fourth Year students in Chemical, Civil, Metallurgical and Mining Engineering.

Includes tests of direct current metering and controlling devices, dynamos, motors, boosters, motor generators and constant current machines; experiments of variable current flow in circuits; tests of alternators, synchronous motors and converters, induction motors and transformers, etc. Three hours per week.—Mr. Schippel, Mr. Howes.

112a. A shorter course similar to above for students in Mining. One period per week for one term.—Mr. Wallace.

Third Year.

113. Electrical Engineering. The theoretical consideration of current flow in circuits; the laws of electro-magnetism and of the magnetic circuit; the theory and operating characteristics of direct current machinery; the principles of alternating current machinery. Required of students in Electrical Engineering. Four hours per week. —Prof. Christie.

Text-book:—Christie's Electrical Engineering.

114. Electrical Engineering Laboratory. Preparation of reports; construction, handling and protection of electrical apparatus; use of instruments and precision of measurements; predetermination of the characteristics of electrical machinery; special and shop testing.

Tests are made in the Laboratory on:—Current flow in circuits; metering and controlling devices, generators, motors, boosters, balancers and motor generator sets; arc and incandescent lamps; reflectors. These tests are intended to illustrate the principles of action and the limits of the proper use of the apparatus. Students are furnished with special laboratory notes. Required of students in Electrical Engineering. Laboratory, six hours per week. Problems, two hours per week.—Mr. Schippel, Mr. Howes.

Fourth Year.

117. Electrical Engineering. The treatment of alternating current circuits by vector diagrams and vector equations; the theory and operating characteristics of alternating current machinery. Required of students in Electrical Engineering. Three hours per week.—Prof. Christie.

Text-book:—Christie's Electrical Engineering.

118. Electrical Engineering Laboratory. Tests are made in the laboratory on alternators, synchronous motors and converters, compensators, induction motors, transformers, frequency and phase changing apparatus, potential regulators, rectifiers, etc. Students are furnished with special laboratory notes. Required of students in Electrical Engineering. Laboratory, nine hours per week.—Dr. Herdt and Mr. Wallace.

120. Electric Lighting and Power Distribution. The design and operation of power plants and substations. Transmission and distribution systems are taken up under the following heads:—Selection of generators, transformers, switches and auxiliary apparatus with a study of their characteristics and limitations; wiring diagrams and switchboard design; line design and construction, selection of

towers, insulators and conductors, calculation of sags and spans; high voltage and transient phenomena; the protection of overhead lines, cable systems and station apparatus; industrial applications of electrical apparatus; financial considerations. This subject is required of students in Electrical Engineering. Two hours per week, first term.—Dr. Herdt.

Text-book:—Standard Handbook for Electrical Engineers.

121. Electric Traction. Urban, interurban and main line electrification is taken up under the following heads:—Choice of system and apparatus; calculation of motor rating and car equipment; overhead and track construction; methods of control, braking and regeneration; storage batteries and boosters; generating stations and substations, distribution systems, power supply.

This subject is required of students in Electrical Engineering. Two hours per week, second term.—Dr. Herdt.

Text-book:—Standard Handbook for Electrical Engineers.

122. Electrical Design. The electrical design of direct and alternating current machinery. Special attention is paid to the limitations of the different types of machines and to the preparation of specifications. Required of students in Electrical Engineering. Lectures, two hours per week. Problem work, three hours per week.—Prof. Christie.

Text-book:—Gray's Electrical Machine Design.

123. Applications of Electricity. Lectures on industrial and general applications of electric power, the electrical supply systems for industrial power and lighting; special problems of plant design; special problems of lighting in electrical systems; special problems of electrical transmission; electrolysis mitigation for electric railways. Lectures, one hour per week, first term, and three hours per week, second term.—Mr. Burr.

124. Electrical Photometry and Illumination. Electric light production; photometry; illumination; principles of interior and street illumination. First term. Lectures, two hours per week. Drafting room, two hours per week.—Mr. Burr.

ENGLISH

Associate Professor:—G. W. Latham.

131. English Composition. In view of the importance of accuracy of expression for those engaged in scientific or professional work, a course in English composition is prescribed for all undergraduates of the First Year. Students will be assigned to a section which will

meet twice a week for practice and instruction in composition, and in addition will be called upon from time to time for individual conferences with the instructor.

Students coming to McGill from schools or colleges where an equivalent amount of English composition is given may apply for exemption from the above course. Applications for such exemption should be addressed to the Dean of the Faculty of Applied Science not later than September 15th, and should be accompanied by certificates of standing and a certified syllabus of the course taken. Students who consider themselves qualified for exemption but cannot produce satisfactory certificates as above, may come up for a special exemption examination to be held on Saturday, October 3rd, 1925, at 2 p.m. Candidates who present themselves for this examination should be thoroughly prepared in Aydelotte's English and Engineering, Sections VII to XVII inclusive.

In connection with this course the following text-books will be used:—Lomer and Ashmun's The Study and Practice of Writing English (Houghton Mifflin); Aydelotte's English and Engineering, 1923 Edition (McGraw Hill Publishing Co.).

132. Summer Reading. Second Year. (See page 232.)
133. Summer Reading or Essay. Third Year. (See page 233.)
134. Summer Reading. Fourth Year. (See page 234.)

DEPARTMENT OF GEOLOGY AND MINERALOGY

Professor:—J. Austen Bancroft (on leave).
Associate Professor of Mineralogy:—R. P. D. Graham (Acting Head of the Department).
Assistant Professor of Geology:—John J. O'Neill.
Assistant Professor of Palæontology:—T. H. Clark.
LeRoy Fellow in Geology:—D. H. Ellis.

Third Year.

141. General Geology. (Arts 1.) The lectures will embrace a general survey of the whole field of geology and will be introduced by a short course on mineralogy . Especial attention will be devoted to dynamical geology and to historical geology, including a description of the fauna and flora of the earth during the successive periods of its past history, as well as to the economic aspects of the subject.

The lectures will be illustrated by the extensive collections in the Peter Redpath Museum, as well as by models, maps, sections and lantern slides. In addition to the lectures there will be a demonstration each week.—Dr. Bancroft.

Text-book:—Cleland, Geology, Physical and Historical.

142. MINERALOGY. (Arts 5.) The lectures and demonstrations, illustrated by specimens and models, deal mainly with the description and means of identification of species, special attention being paid to the ores and economic minerals and to those which are important as rock constituents. The earlier lectures are devoted to a brief discussion of the geometrical and physical properties of minerals; their chemical composition; calculation of formulæ, etc., and the principles of classification.—Prof. Graham.

143. DETERMINATIVE MINERALOGY. (Arts 6.) Laboratory practice in blow-pipe analysis and its application to the determination of mineral species.—Prof. Graham.

Fourth Year.

146. PETROGRAPHY. (Arts 10.) The modern methods of study employed in petrography are first described, and the classification and description of rocks is then taken up.

In addition to the lectures, one afternoon a week during the second term will be devoted to practical work in the petrographical laboratory.—Prof. Graham and Dr. O'Neill.

147. ADVANCED PETROGRAPHY. (Arts 11.) This is a more advanced course than 146. In addition to the lectures, an afternoon throughout the year will be devoted to practical work in the petrographical laboratory.—Professors Bancroft, Graham and O'Neill.

Text-book:—Harker's Petrology for Students.

The petrographical laboratory is open to Fourth Year Mining students.

148. ORE DEPOSITS AND ECONOMIC GEOLOGY. (Arts 7 and 8.) The nature, mode of occurrence and classification of ore deposits will first be taken up. A series of typical occurrences will then be described and their origin discussed. The more important non-metallic materials, *e.g.*, fuels, clays, building stones, etc., will be similarly treated, as well as questions of water supply, artesian wells, etc. The structure of the earth's crust, more especially with reference to folding, faulting and igneous intrusion in their bearing upon mining, will then be considered, and the course will close with a discussion of the methods employed in carrying out geological and magnetic surveys and in the construction and interpretation of geological maps and sections.—Dr. Bancroft.

Books of reference:—Geikie, Outlines of Field Geology; Kemp, Ore Deposits of the United States and Canada; Lindgren, Mineral

Deposits; Leith, Economic Aspects of Geology; the Reports of the Geological Survey of Canada, and the Publications of the U.S. Geological Survey.

149. Geology of Canada. (Arts 3.) A general description of the geology and mineral resources of the Dominion.—Dr. Bancroft.

151. Optical Mineralogy and Crystallography. (Arts 9.) A short course of lectures for students in chemistry, with laboratory practice in the measurement and drawing of crystals; calculation of axial ratios, etc.; use of the polarizing microscope, axial angle apparatus, etc.—Prof. Graham.

152. Historical Geology. (Arts 4.) This is a continuation of course 141, and will consist of lectures, colloquia and museum work extending throughout the session.—Dr. Clark.

153. Field Work. The students in mining will receive a course of instruction in geological mapping and field work, extending over one week—in connection with the summer school of mining.—Prof. Graham and Dr. O'Neill.

Note.—Students of the Mining, Metallurgy and Chemistry courses take all the mineralogy of the Third Year. Chemistry students may, in addition, take the mineralogy of the Fourth Year No. 151.

HISTORY OF SCIENCE, LAW AND ECONOMICS

Associate Professor of Economics:—J. P. Day.
Assistant Professor of Economics:—J. C. Farthing.
Lecturer on Economics:—F. B. Brown.
Lecturer on Law:—J. W. Weldon.

170. History of Science. A course of lectures on the History of Science and the History of Engineering by various lecturers, supplemented by reading and written exercises. One hour per week.

171. Elements of Political Economy. The lectures will deal with the production and distribution of wealth; the means by which these processes are effected; the means by which they are controlled and regulated by the state or the community; the various theories concerning their operation and regulation; their effect on society, labor and capital; theories of money and credit; prices; public finance and taxation. Two hours per week in the second term of the Third Year. —Mr. Farthing.

Books of reference:—Gide, Political Economy; Ralph and Griffith, Digest of British Economic History.

172. Canadian Economic Problems. This course is intended to familiarize engineering students with the most important economic problems of the day; the currency and banking systems; taxation; trade policy; the history of the tariff; transportation; its development and policy.—Prof. Day.

Corporation Finance:—Valuations; specifications; contracts; estimates; financial programmes; rate making; depreciation.—Mr. Brown.

Two hours per week in the first term of the Fourth Year.

175. Engineering Law. This course is intended to present such an outline of the law as will be useful to engineers and business men. One hour per week in the Fourth Year.—Mr. Weldon.

DEPARTMENT OF MATHEMATICS

Professors:— D. A. Murray. C. T. Sullivan.

Assistant Professors:— R. E. Jamieson. W. L. G. Williams. T. H. Matthews. G. J. Dodd.

Lecturer:—A. Campbell.

First Year.

191. Geometry. Solid geometry and geometrical conic sections. First term.—Messrs. Dodd, Jamieson, Matthews, Williams.

Text-book:—Hall and Stevens' School Geometry, Part VI (Macmillan).

192. Algebra. Miscellaneous theorems and exercises, exponential and other series, properties and solution of higher equations, complex numbers, graphical algebra with an introduction to analytic geometry, indeterminate forms, limits, derivatives, slopes of curves. First and second terms.—Messrs. Campbell, Dodd, Jamieson, Williams.

Text-books:—Hall and Knight, Higher Algebra; Tanner and Allen, Brief Course in Analytic Geometry (American Book Co.).

193. Trigonometry. Plane and spherical. Second term.—Messrs. Dodd, Jamieson, Matthews, Williams.

Text-book:—Murray's Plane and Spherical Trigonometry, with tables (Longmans).

194. Mechanics. An elementary course in dynamics, statics, and hydrostatics. First and second terms.—Messrs. Campbell, Dodd, Jamieson, Williams.

Text-book:—Loney's Mechanics and Hydrostatics for Beginners (Cambridge University Press).

Second Year.

197. ANALYTIC GEOMETRY. The point, straight line, circle, parabola, ellipse and hyperbola, elements of geometry of three dimensions. First Year (latter part of second term), and Second Year (first term). The Second Year work begins with the circle.—Messrs. Murray, Sullivan, Williams.

Text-book:—Tanner and Allen, A Brief Course in Analytic Geometry (American Book Co.).

198. CALCULUS. Differentiation of functions of one or more variables, successive differentiation, tangents, etc., curvature, maxima and minima, integration, with application to areas, volumes, moments of inertia, etc. First and second terms.—Messrs. Murray, Sullivan, Williams.

Text-book:—Murray's Differential and Integral Calculus (Longmans).

Third Year.

201. CALCULUS. Elementary differential equations. Prescribed for Electrical Engineering students of the Third Year; optional for all others. First and second terms.—Dr. Murray.

DEPARTMENT OF MECHANICAL ENGINEERING

PROFESSOR:—C. M. MCKERGOW.

ASSOCIATE PROFESSOR:—A. R. ROBERTS.

ASSISTANT PROFESSOR:—J. A. COOTE.

LECTURERS:— R. H. PATTEN. C. U. VESSOT. L. R. MCCURDY.

DEMONSTRATOR:—J. C. ELDER.

SHOP INSTRUCTOR:—W. GATEHOUSE.

Second Year.

218. MECHANICS OF MACHINES. (Second term.) *Kinematics of Machines.*—Constrained motion; kinematic pairing; velocity and acceleration in mechanisms; centrodes; analysis and classification of simple mechanisms, including the quadric crank chain, the slider crank chain and various wheel trains; design of involute and of cycloidal wheel-teeth.—Mr. Patten.

Text-book:—Durley's Kinematics of Machines (Wiley).

Third Year.

224. MECHANICS OF MACHINES. Alternative with course (258), Accounting. Relative motion and displacement; crank effort diagrams, flywheels and inertia forces; the mechanism of the simple

slide valve and of expansion valves; solution of valve setting problems; the function and dynamics of governors; elements of engine balancing; friction and lubrication. Required of students in Mechanical and Electrical Engineering. Three hours per week.—Mr. Vessot.

Text-book:—Ewing's Steam Engine (Camb. Univ. Press).

225. MACHINE DESIGN. Principles of the strength of materials as applied to the design of the part of machines; fastenings used in machine construction, bolts, screws, keys, cotters, rivets, and riveted joints; journals and bearings; shafts and couplings. Required of students in Mechanical and Electrical Engineering. Two hours per week.—Professor Roberts.

Text-book:—Unwin's Machine Design, Part I (Longmans).
Book of Reference:—Spooner's Machine Design (Longmans).

226. MECHANICAL ENGINEERING. General course in Mechanical Engineering of Power Plants and Prime Movers.

Fuel and combustion, steam, and steam production; corrosion and defects of boilers; boiler accessories, principles of selection and arrangement; the steam engine; estimation of power developed and economy; condensers, pumps and accessories; steam turbines; principles of design in steam plants; gas engines and gas producer plants. Required of all Engineering students, except those in Mechanical Engineering. Two hours per week.—Professor McKergow.

Text-book:—Duncan, Steam and Other Engines (Macmillan).

227. MECHANICAL ENGINEERING. Same course as 226, but more time is given to working out practical problems. Required of students in Mechanical Engineering. Three hours per week.—Prof. McKergow.

Text-book:—As for 226.

228. MECHANICAL ENGINEERING LABORATORY. Testing and calibration of indicators, brakes and other measuring instruments; tests to determine the efficiency of belt and other transmission gearing; the properties of lubricants; the economy and performance of a steam engine and boiler, of a gas engine, of an air compressor, and of a pump. Required of all Engineering students, except those taking the Electrical Engineering course. Three hours per week.—Prof. McKergow and assistants.

Reference book:—Carpenter, Experimental Engineering.

223. MECHANICAL ENGINEERING LABORATORY. First term, course same as 228; second term, experimental work on the relative value of throttling and expansion governors; effect on the economy of steam engine of changing from simple to compound, triple, or quadruple expansion; the testing of steam boilers, producer gas engines, air compressors, steam turbines, and a complete steam power plant test.

Required of students in Electrical Engineering. Six hours per week in first term and three hours per week in second term.—Prof. McKergow and assistants.

Reference book:—Carpenter, Experimental Engineering.

229. THERMODYNAMICS. Fundamental laws and equations of thermodynamics; their application to gases and to saturated superheated vapours; efficiency of ideal heat engines; properties of steam, and elementary theory of the steam engine; elementary theory of gas and hot-air engines. Required of Third Year students in Mechanical and Electrical Engineering. Two hours per week.—Prof. Roberts.

Text-books:—Marks and Davis, Steam Tables; Elements of Engineering Thermodynamics, Moyer, Calderwood and Potter. *Reference book:*—Ewing, The Steam Engine and Other Heat Engines (Camb. Univ. Press).

231. MECHANICAL DRAWING. This course is supplementary to the course in machine design and consists of exercises in design and draughting of fastenings, machine parts and simple machines. Required of Mechanical Engineering students. Six hours per week for the first term and three hours per week for second term.—Mr. Coote.

232. MECHANICAL DRAWING. A course similar to 231, but less extended. Required of Electrical Engineering students. Three hours per week.

236. MACHINE SHOP. Lathe work; marking off; centering; turning and boring; radial facing; filing; grinding and polishing; internal and external screw cutting; change gear calculations; taper turning and bench work. Required of students in Mechanical Engineering. Three hours per week for one term.—Mr. Gatehouse.

237. INDUSTRIAL ENGINEERING. Fundamental principles, modern tendencies and problems arising therefrom, scientific management, routing, etc., personnel and collective bargaining.

Text-book:—Industrial Organization (Kimball).

Two lectures per week during the first term.—Mr. Coote.

238. ACCOUNTING. Alternative with Mechanics of Machines (224). This course is designed to give students the fundamental principles of bookkeeping and accounting so that they will be in a position to deal intelligently with the books of account and the financial statements met with in engineering work, particularly in manufacturing. One hour lecture and one problem period per week.—Mr. Coote.

Text-book:—Accounts, Their Construction and Interpretation (Cole).

Fourth Year.

240. MECHANICS OF MACHINES. (a) *Valve gears and governors.* Gyrostatic action in machines; further treatment of engine governors; knocking and shocks in reciprocating machinery; valve gears.—Mr. Vessot.

(b) *Aerodynamics.* The construction of an æroplane; methods of experiment in æronautics; prediction of performance from experimental data; stability and control; the theory of air screws. Three hours per week.—Prof. McKergow.

Reference books:—Dalby's Balancing of Engines; Spangler's Valve Gears.

241. DESIGNING. The complete design of an engine, a pump, or a machine tool, is worked out, and the requisite working drawings and tracings are prepared. Required of students in Mechanical Engineering. Three hours per week.—Prof. Roberts.

242. MACHINE DESIGN. (a) Design of power transmission gearing, including belts, ropes, friction, chain and toothed gearing, fits and fitting. (b) Engine details, including cylinders, piston rods, connecting rods, shafts, fly-wheels and machine frames. Required of Mechanical Engineering students. Two hours per week.—Prof. Roberts.

Text-book:—Unwin's Machine Design, Parts I and II (Longmans). *Reference book:*—Spooner's Machine Design (Longmans).

243. MACHINE DESIGN. Course same as 242 (a). Two hours per week during the second term. Required of Electrical Engineering students.—Prof. Roberts.

244. POWER PLANT DESIGN. The arrangement, design and operation of power plants worked by steam and gas engines; effects of requirements for lighting, heating and power distribution. One lecture hour and one drafting room period per week. Required of students in Mechanical Engineering.—Prof. McKergow.

Text-book:—Gebhardt, Steam Power Plant Engineering.

247. HEATING AND VENTILATION OF BUILDINGS. Loss of heat from buildings; radiation surfaces; design and operation of heating systems; principles of ventilation; fans and blowers; design and duct systems; temperature and humidity control. One hour per week. —Prof. McKergow.

Text-book:—Allen and Walker, Heating and Ventilating.

249. MECHANICAL ENGINEERING LABORATORY. Experimental investigation of:—action of governors; performance of fans and blowers; performance of steam boilers, steam engines, steam turbines,

refrigeration machines, condensers, gas engines and producers, efficiency of air compressing and pumping machinery; tests of a complete steam power plant, gas power plant and a heating and ventilating system. Ten hours per week. Required of students in Mechanical Engineering.—Prof. McKergow.

Reference book:—Carpenter, Experimental Engineering.

249a. MECHANICAL ENGINEERING LABORATORY. Similar to course 249. Taken by students in Fourth Year Mechanical Engineering who take the Industrial Administration option. Two periods per week.

257. EXPERIMENTAL ENGINEERING. Theory of errors; calibration and use of instruments; measurement of power; methods of testing power-plant apparatus and the tabulation of results. Required of students in Mechanical Engineering. One hour per week.—Prof. Roberts.

Text-book:—Carpenter, Experimental Engineering.

251. THERMODYNAMICS. Efficiency of the piston steam engine, behaviour of steam in the cylinder, influence of size, speed rate of expansion, compounding, superheating and steam-jacketing; flow of gases and vapours through orifices and nozzles and applications to the design of steam-turbines; theory and analysis of performance of internal-combustion engines; refrigerating-machine cycles. Required of students in Mechanical Engineering . Two hours per week.—Prof. Roberts.

Text-books:—Ewing's Steam Engine (Cambridge Univ. Press); Moyer, Steam Turbines (Wiley); Marks and Davis, Steam Tables and Diagrams (Longmans).

Books of reference:—Stodola, The Steam Turbine (trans. Lowenstein) (Van Nostrand); Clerk, The Gas Petrol and Oil Engine, Part I.

252. MACHINE SHOP. Experimental work and studies for the minimum times required for production, involving a consideration of the best available machine tool speeds, necessary power of belting, most efficient tool angles, quality of metal and the kind of tool steel used. The course includes work in connection with the lathe, the planer, slotter, shaper and miller; instruction in gear cutting and cutter grinding. Required of students in Mechanical Engineering. Three hours per week.—Mr. Gatehouse.

253. INDUSTRIAL ENGINEERING. A consideration of the economic factors that influence the location of industrial plants, such as the capacity of the market, the location of raw materials and the source of power, transportation facilities and costs, etc.; selection of local site and design of the plant; organizing and financing the company;

organizing for operation and forecasting results. Two lectures and one drafting room period per week throughout the year.—Mr. Coote.

Text-book:—Walker, Management Engineering (McGraw-Hill).

254. Industrial Administration. The control of industry—production, finance and sales by means of planning systems, control boards, charts, budgets, standard costs, etc. The lectures will be largely descriptive of the different control devices and the problem periods will be devoted to their practical working out and use. One lecture and one drafting room period per week in the second term. —Mr. Coote.

258. Industrial Relations. A study of the problems arising out of the administration of industrial enterprises on the human side; the recruiting of the labor force; introducing the worker to the factory; health and safety; job analysis and job specifications; education; wages and hours; profit-sharing, shop committees and collective bargaining. Two lectures per week in the first term.—Mr. Coote.

Text-book to be selected.

Summer schools—see note (c), page 231.

DEPARTMENT OF METALLURGICAL ENGINEERING

Professor:—Alfred Stansfield.
Assistant Professor:—Gordon Sproule.
Sessional Lecturer:—Harold J. Roast.
Special Lecturer:—Charles F. Pascoe.
Research Fellow:—J. E. Morrison.

Third Year.

261. Elementary Metallurgy and Laboratory. An introductory course in general metallurgy, including metals and alloys, fuels, furnaces, refractory materials, pyrometry and calorimetry, and a short account of the metallurgy of copper, lead, iron and steel.

The instruction consists of lectures during the first term and a short laboratory course in which the following exercises are carried out as far as time permits:—(*a*) Roasting a sulphide or arsenical ore; (*b*) formation and properties of copper or lead mattes and slags; (*c*) smelting a copper or lead ore in crucibles; (*d*) melting and casting certain metals and alloys; (*e*) the use of the electric furnace; (*f*) leaching a copper or silver ore; (*g*) elementary exercises in some of the following: pyrometry, calorimetry, tests of refractory materials, microscopic examination of metals, heat-treatment of iron or steel, and some simple mechanical testing methods.

Two lectures a week during the first term and one laboratory period during half of the second term.—Mr. Sproule.

262. Elementary Metallurgy. The course of lectures as in 261, but without laboratory work, for Chemical Engineering students.

263. Fire-Assaying. The lectures and instruction sheets give an account of the furnaces, balances and other appliances used in assaying, the sampling and preparation of ores, the fluxes and reagents employed, and the methods used in assaying gold, silver and lead ores, copper and copper ores and mattes, gold and silver bullion and base bullion, cyanide precipitates and solutions.

One lecture a week during the second term for Metallurgical and Mining students.—Mr. Sproule.

264. Fire-Assaying Laboratory. The students learn as many of the above-mentioned methods as possible in the time allowed to this course. Care is taken that a student shall be able to make such assays as would be required at a mine, and with a fair degree of accuracy. Students usually have an opportunity of doing additional fire assaying in their Fourth Year.

Two laboratory periods a week during the second term, for Metallurgical and Mining students.—Mr. Sproule.

Reference books:—E. A. Smith, Sampling and Assay of the Precious Metals; E. E. Bugbee, Fire Assaying.

265. Metallurgical Calculations. This is an introductory course on the application of exact chemical and physical laws to metallurgical operations, such as the combustion of fuel, the smelting of ores and the construction and heating of furnaces. One lecture a week during the first term for Metallurgical students—Dr. Stansfield.

Text-book:—J. W. Richards, Metallurgical Calculations, Vol. I.

267. Metallurgical Field School. This is held at the end of the Third Year. The first part consists of visits to metallurgical works in Montreal and the vicinity, supplemented by reading and lectures. The second part consists of visits to smelters, steel-works and metallurgical refineries throughout Canada. Students are required to keep notes during the school and to submit a report of each works visited.

The Field School has been held in Nova Scotia, British Columbia and other parts of Canada, but it is usually conducted in Ontario, as this offers the greatest variety at the least cost. The only charge made is for board, lodging and railway fares, and care is taken to keep these as low as possible.

At the close of the School it is usually possible for each student to obtain suitable employment for the summer, at one of the works visited, and students are strongly advised to take this means of obtaining metallurgical experience.

Fourth Year.

271. METALLURGY (General).

(*a*) The metallurgy of iron and steel.

(*b*) The metallurgy of copper, lead, gold, silver, zinc and nickel.

Two lectures a week during the session and a few laboratory demonstrations.—Dr. Stansfield.

Text-books:—Bradley Stoughton, The Metallurgy of Iron and Steel; W. Gowland, The Metallurgy of the Non-ferrous Metals.

272. METALLURGY (Advanced).

(*a*) General advanced metallurgy.

Text-books:—Fulton, Principles of Metallurgy; Hofman, General Metallurgy; Dean, Theoretical Metallurgy.

(*b*) A more detailed account of the metals mentioned in 271, and of aluminum, antimony, arsenic, bismuth, cadmium, cobalt, mercury, platinum and tin.

Reference books:—Hofman, Metallurgy of Copper; Hofman, Metallurgy of Lead; Hofman, Metallurgy of Zinc and Cadmium; Collins, Metallurgy of Silver; Addicks, Copper Refining; Johnson, The Principles, Operation and Products of the Blast Furnace; Forsythe, The Blast Furnace and the Manufacture of Pig Iron.

Required of Metallurgical students. Two hours a week during the session.—Dr. Stansfield.

273. FIRE-ASSAYING AND LABORATORY. A short course for Chemical Engineering students. For particulars, see 263 and 264. One laboratory period and one lecture in the first term.—Mr. Sproule.

274. METALLURGICAL LABORATORY AND THESIS. Three periods per week in the second term are devoted to the serious study of some metallurgical problem. The students work singly or in pairs and prepare a thesis containing an account of an important published work bearing on the subject, as well as the result of their own experimental researches. Required of Metallurgical students.—Dr. Stansfield.

275. ELECTRO-METALLURGY AND LABORATORY. The course of lectures is devoted mainly to a consideration of the principles and construction of electric furnaces, and their uses for smelting and refining metals. The refining of metals and the recovery of metals from their ores by electrolysis of aqueous solutions is also considered. The

laboratory work is arranged to illustrate the lectures. Groups of students operate each of the main types of electric furnace and become familiar with some of the principles of electric furnace construction and design. Two lectures a week and one laboratory period during the second term for Metallurgical students.—Dr. Stansfield.

Text-book:—Stansfield, The Electric Furnace.

276. Electro-Metallurgy. A course of lectures as in 275, and a few laboratory demonstrations for Electrical students.—Dr. Stansfield.

277. Metallurgical Colloquium. One hour a week during the second term is given to informal discussions of research and other work being done in the department, and to other topics of metallurgical interest.—Dr. Stansfield.

278. Metallurgical Calculations and Design. The calculation of furnace charges and efficiencies, and the designing of metallurgical furnaces and plants. One lecture a week during the first term and two periods per week in the library and drafting room during the second term.—Dr. Stansfield.

279. Metallurgical Analysis. In this course the student is enabled to acquire dexterity in the modern commercial methods of analyzing ores and ferrous and non-ferrous alloys, taking into consideration the need of speed and reasonable accuracy. Instruction is given in the essential features of the methods employed and in fitting up a works laboratory. One lecture and one laboratory period per week during the second term.—Mr. Roast.

280. Metallography. A course of lectures on the fundamentals of metallography, including the heat-treatment of steel and the standardization of the common non-ferrous alloys. One lecture a week during the first term, for Metallurgical students.—Mr. Roast.

281. Metallographic Laboratory. Laboratory instruction and practice in preparing and studying specimens of iron, steel, bronze, brass and babbitt metal for microscopic examination, and in the heat-treatment of steel and the methods of thermal analysis. One laboratory period per week during the first term, for Metallurgical students.—Mr. Roast.

282. Metallography and Laboratory. A short course of lecture and laboratory instruction, covering the essential features of theoretical and practical metallography. One lecture and one laboratory period per week during one-half of the first term, for Chemical Engineering students.—Mr. Roast.

Extension Courses.

A course of lectures and laboratory instruction in Metallography is given in the evening by Mr. Roast and Mr. Pascoe.

A course of lectures and laboratory instruction in Commercial Metallurgical Analysis is given in the evening by Mr. Roast.

For particulars, see Announcement of Extension Courses.

Mining and Metallurgical Society.

See page 272.

Research Fellowships and Graduate Courses.

One or more research fellowships are usually offered to graduate students in Metallurgical Engineering. Details of the graduate instruction are given in the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF MINING ENGINEERING

Professor:—John Bonsall Porter.

Associate Professor:—John W. Bell.

Lecturer:—Willi Erlenborn.

Dawson Research Fellow:—A. J. P. Walter.

Douglas Research Fellow:— ————————

Harrington Research Fellow:— ————————

Third Year.

291. Mining Engineering. *The principles and practice of mining.*—Introductory, simple mining methods, excavation, explosives and blasting, rock drills, coal cutters, gold washing and dredging, hydraulic mining, quarrying, etc. Two lectures per week in the second term. This course is continued in the Fourth Year. (See 297.)—Dr. Porter.

292. Ore Dressing. *The theory and practice of ore dressing and coal washing.*—The forms in which ores occur and the effect of mixture, impurity, etc.; the theoretical considerations affecting mineral separations; the mechanical operations involved; crushing, sizing and dressing machinery—breakers, stamps, rolls, screens, jigs, vanners, tables, flotation apparatus, washers, magnetic separators, etc. Two lectures per week and laboratory. This course is continued in the Fourth Year. (See 300.)—Dr. Porter and Prof. Bell.

Ore Dressing Laboratory. Simple tests of ores, sands and gravels, by means of pan, classifier, jig, table, etc. Six afternoons in the second term. Further laboratory work in the Fourth Year. (See 305 and 306.)—Professor Bell and Mr. Erlenborn.

295. Crushing Machinery. This is the first half of course 292 and is taken by students in Chemical Engineering as well as by Mining and Metallurgical students. Two lectures per week in first term.—Dr. Porter and Prof. Bell.

293. MINE MAPPING. The calculations and plotting of mine surveys. One afternoon per week in the first term. Mr. Erlenborn.

Text-books:—H. C. Hoover's Principles of Mining, D. W. Brunton's Safety in Tunnelling, Truscott's Ore Dressing and Peele's Mining Engineer's Handbook.

Fourth Year.

297. MINING ENGINEERING. *The principles and practice of mining.* —Prospecting, artesian and oil wells, diamond drilling, open cut mining, shaft sinking, drifting, underground development and methods of mining, timbering, hauling, hoisting, pumping, lighting, ventilating, etc.; mine accidents and their prevention; general arrangement of plant, stores and dwellings; administration and industrial relations; examination and valuation of mines and mine reports. Three lectures a week. —Dr. Porter and Mr. Erlenborn.

298. MINING AND ORE-DRESSING MACHINERY AND DESIGN. *The application of mechanical and electrical engineering to mining, ore-dressing and metallurgy.*—Machinery for haulage, hoisting, pumping, ventilating, etc.; mine power plants, power transmissions, tramways, cableways, compressors, fans, conveyors, cranes, etc.; mine and mill building, head frames, ore bins, lay-out of plant, etc. Two lectures a week and two drafting room periods in the second term for all students n course.—Dr. Porter, Professor Bell and Mr. Erlenborn.

299. MINING AND ORE-DRESSING (ADVANCED). This course is supplementary to 298 and is given to students electing to take alternative (b). It includes a series of lectures and colloquia on advanced work in mining, ore-dressing and industrial relations. The students are encouraged to take up individual subjects in-so-far as possible. One lecture and one laboratory period per week throughout the session. —Dr. Porter, Professor Bell and Mr. Erlenborn.

300. ORE-DRESSING AND MILLING. Continuation of the ore-dressing course of the Third Year. Gold and silver milling, amalgamation cyaniding, flotation, etc., concentration plants, coal breakers and washers, general conclusions regarding plant design and lay-out. Two lectures a week in the first term.—Dr. Porter and Mr. Erlenborn.

301. MINING COLLOQUIUM. One hour a week is given to the presentation and discussion of papers on the work being done in the department and to other matters relating to mining and ore-dressing. Students are required to take the leading part in these exercises.

305. ORE-DRESSING LABORATORY. One and one-half mornings per week in the first term are given to the ore-dressing and hydraulic laboratories. This time is chiefly assigned to ore-dressing, and certain typical operations are carried out. The exercises in ore-dressing are a

continuation of the Third Year laboratory work, but are arranged as far as possible for individuals rather than groups of students. They comprise experiments in crushing, classifying, jigging, slime treatment, magnetic separation, cyanidation and amalgamation, coal washing, etc.

306. Ore-Dressing Laboratory and Thesis Work. In the second term one whole day and one additional morning per week are given to individual work in the laboratory and to the preparation of a thesis to be filed in the departmental library, and, when suitable, published. Students who complete the work in course 305 before the end of the first term, begin their thesis work without delay.

The subjects available for thesis work are very numerous, and range from purely theoretical investigation in crushing, screening, classification, concentration, flotation, etc., to the experimental determination of the best methods for the treatment of particular ores and coals. Numerous different lots of ore are available in sufficient quantities for work on a comparatively large scale. New ores are constantly being secured.

Text-books:—In addition to the text-books already specified for the Third Year, students are required to provide themselves with Hamilton's Manual of Cyanidation. In addition to using these formal text-books, students are required to make such frequent use of the works named below, that they should, if possible, be purchased by each member of the class:—Hager's Oil Field Practice; Donaldson's Practical Shaft Sinking; Brinsmade's Mining Without Timber; Handbook of Mining Details or the Design of Mine Structures, published by McGraw-Hill Co.; Ketchum's Design of Mine Structures; McCulloch and Futer's Winding Engines; Storms' Timbering and Mining; Peele's Compressed Air Plant; Richard's Text-book of Ore-Dressing; Rickard's Flotation, and Sampling and Estimation of Ore in a Mine; Julian and Smart's Cyaniding Gold and Silver Ores; Megraw's Details of Cyanide Practice; Hoover's Concentrating Ores by Flotation; Prochaska's Coal Washing; The Coal and Metal Miners' Pocket-book.

Research Fellowships and Graduate Courses.

Special courses of instruction are offered to graduate students in mining and ore-dressing. See announcement of the Faculty of Graduate Studies and Research. There are three endowed Research Fellowships in the gift of the Mining Department. These are assigned to graduates of the department who show particular aptitude for advanced work.

Laboratories.

The specific laboratory instruction in mining subjects proper begins in the Third Year, with courses in assaying, elementary metallurgy and

ore-dressing. In the Fourth Year this work is elaborated, the general method of instruction being first to conduct a limited number of typical operations, and then to assign to each student certain methods which he must study out in detail, and upon which he must experiment and make written reports. In this work he is guided by the professors and fellows, and assisted by the other students, whom he must in turn assist when practicable. In this way every student acquires detailed knowledge of certain typical operations and makes at least one original investigation and at the same time gains a fair general experience of many of the important methods in use.

Illustrations, Museums, Societies, Etc.

In addition to the usual projection apparatus and a collection of over two thousand lantern slides, the department has a standard motion picture projector and has made arrangements with the U.S. Bureau of Mines and other sources whereby several large series of mining films are available for class use. There is also a collection of over 4,000 photographs and other illustrations, and a good departmental library, including selected trade catalogues, etc. These collections are constantly being enlarged.

The museums of the building contain suites of ores, concentrates, fuels, and metallurgical materials, models of mines and furnaces, and collections of finished products.

The McGill University Mining and Metallurgical Society meets at stated periods to read and discuss papers by graduate and student members, and occasionally to hear lectures by gentlemen eminent in the profession. The Society has been made a students' section of the Canadian Institute of Mining and Metallurgy and its undergraduate members are therefore student members of the Institute, and receive its publications. Papers read before the Mining Society or submitted as Summer Essays may be entered in competition for all students' prizes offered by the Canadian Institute of Mining and Metallurgy, or the Engineering Institute of Canada.

Field School in Mining.

294. The summer vacation field class, instituted in 1898, is now a fixed part of the course. All students in Mining in regular course are required to attend this class at the end of the Third Year.

The school lasts from four to five weeks, depending on where it is held. Of this period about one-fifth is given to field work in geology, one-half or more to mining work proper, and the remainder to an examination of ore-dressing and milling plants and metallurgical establishments. The Professor or the Associate Professor of Mining and

other members of the staff go with the party and hold daily demonstrations or classes. The students take notes and sketches on the ground, and afterwards are required to work up these notes and to submit a formal report.

During the last twenty-five years these field parties have visited British Columbia ten times, Nova Scotia six times, Newfoundland and Pennsylvania twice each, and Michigan four times. Numerous visits have also been made to Sudbury, Cobalt and other localities, while *en route* to more distant points.

The instruction given during this field course is free to all Mining students, the only expense to them being the cost of board, lodging and railway fares. These expenses are kept as low as is practicable and are in part met by the income from a fund provided by the late Sir William Macdonald. At the close of the regular work of the field school, arrangements are made with the managers of the mines visited and others to give the members of the party individual employment for the remainder of the summer. All students are earnestly advised to engage in such work. It will be made obligatory at an early date in the future.

DEPARTMENT OF PHYSICAL EDUCATION

DIRECTOR, DEPARTMENT OF PHYSICAL EDUCATION:—ARTHUR S. LAMB
UNIVERSITY MEDICAL OFFICER:—F. W. HARVEY.
ATHLETIC MANAGER:—MAJOR D. S. FORBES, M.C.
TRACK COACH AND ASS'T. PHYSICAL DIRECTOR:—F. M. VAN WAGNER.
RUGBY AND HOCKEY COACH:—F. J. SHAUGHNESSY.
ASSISTANT PHYSICAL DIRECTOR:—HAY FINLAY.

In order to promote as far as possible the physical welfare of the student body, every student coming to the University for the first time will be required to pass a physical examination to be conducted by, or under the direction of, the Director of the Department of Physical Education, or by a recognized representative. Students of the Second Year, as well as those of all Years who wish to engage in athletic activities, are also required to be physically examined. The hours for this examination will be announced at registration.

Each student at the time of examination is given a card which entitles him to take part in certain forms of activity:

(*a*) Fit for all forms of physical exercise.
(*b*) Fit for a limited number of forms.
(*c*) Fit for gymnasium work only.
(*d*) Fit for remedial gymnastics or temporarily unfit.
(*e*) Unfit for any form of physical exercise.

At the same time he will be asked to fill in a card indicating his choice of physical activity, which he will be allowed to follow, unless debarred for medical reasons, under which circumstances he will be given a further choice among other recognized but less strenuous forms of exercise or will do gymnasium work as the case may require.

Physical education is compulsory for all students of the first two years. Two hours per week will be devoted to it.

Any student participating in competitive athletics may be excused from other forms of exercise during the session of training, providing that this is performed to the satisfaction of the Director.

Unexcused absences up to one-eighth of the required number of periods shall be allowed. Unexcused absences exceeding one-eighth, but not exceeding one-fourth, may be allowed if at the end of the session the student passes a special examination and satisfies the Director that he has made sufficient progress. Unexcused absences exceeding one-fourth shall disqualify a student. Such students shall be required to take extra gymnasium class work to the satisfaction of the Director, either by taking a supplemental school in September or by repeating the course in full.

At regular intervals during each session and also at the end of each session, the Director of Physical Education shall furnish the Dean of the Faculty with a list of students who have failed to meet the attendance requirements as laid down in the ordinary curriculum, or who have proved unsatisfactory in other respects, and such cases shall be dealt with by the Faculty.

No student in default shall be allowed to proceed to the next year of his course unless for special reasons exemption should be granted on the recommendation of the Faculty and approved by the Committee on Physical Education.

Not less than one month before the conferring of degrees in each session, the Director shall furnish to the Registrar of the University, for transmission to Corporation and the Faculty, a list of all students, being candidates for degrees at the forthcoming Convocation, who have failed to satisfy the requirements of the Committee on Physical Education, and no Diploma for a degree shall be issued to any such candidate unless by the express direction of Corporation.

Provision is made by the Department for the care of the health of undergraduate students during the session. Hospital accommodation is provided for seven days only, except under special circumstances. A leaflet concerning this service and the general work of the Department, together with the requirements in physical education for all students,

(For further particulars see University Calendar.)

will be distributed at the opening of the session.

(For further particulars see University Calendar.)

DEPARTMENT OF PHYSICS

DIRECTOR:—A. S. EVE.

PROFESSORS:— H. T. BARNES, L. V. KING

ASSOCIATE PROFESSOR:—A. N. SHAW.

ASSISTANT PROFESSORS:— H. E. REILLEY. D. A. KEYS. E. S. BIELER. J. S. FOSTER.

DEMONSTRATORS:— C. GLIDDON. F. G. ADNEY. B. PRIESTMAN. M. HOME. A. V. DOUGLAS. N. CAM. M. CROWE. R. J. CLARK (on leave).

First Year (Architecture).

44. GENERAL COURSE. (Arts No. 1.) Two hours Wednesday and Friday at 2 p.m.—Mr. Reilley.

Text-book:—Kimball's College Physics (Holt).

45. LABORATORY COURSE. (Arts No. 1.) Two hours per week.

Text-book:—Laboratory Manuscripts (Renouf Pub. Co.).

First Year.

311. HEAT, SOUND AND LIGHT. (Arts No. 2.) Three hours per week.—Dr. Shaw.

Text-book:—Duncan & Starling's Heat, Light and Sound (Macmillan).

312. LABORATORY COURSE. (Arts No. 2.) Two hours per week. See time-table of sections.

Text-book:—Laboratory Manuscripts, Barnes & Wheeler (Renouf Pub. Co.).

Second Year.

315. ELECTRICITY AND MAGNETISM. (Arts 3A.) Two hours per week.—Dr. Eve.

316. LABORATORY COURSE. (Arts 3A.) Two hours per week.

Text-books:—Duncan and Starling, Electricity and Magnetism (Macmillan's); Laboratory Manuscripts (Renouf Publishing Co.).

Fourth Year.

320-321. ELECTRICAL MEASUREMENTS. (Arts 6A.)

Text-book:—Terry's Advanced Laboratory Practice in Electricity and Magnetism (McGraw-Hill).

ADVANCED COURSES AND RESEARCH. For advanced courses of lectures, see announcement of the Faculty of Graduate Studies and Research and also Arts Faculty Bulletin under honour courses. There are special facilities offered for those desiring to take up research work in heat, optics, sound, electricity and magnetism, and radioactivity.

For course in Engineering Physics, see page 230.

DEPARTMENT OF SURVEYING AND GEODESY

ASSISTANT PROFESSORS:— A. J. KELLY. JAMES WEIR.

DEMONSTRATOR:—J. F. KELLY.

This course is designed to give the student a theoretical and practical training in the methods of plane and geodetic surveying, in the field work of engineering operations, and in practical astronomy in its application to geodesy. The course is divided as follows:—

Second Year.

346. SURVEYING. Chain and angular surveying; the construction, adjustment, use and limitations of the transit, level, micrometer, compass and minor field and office instruments; railway circular curves; planimeter and pantograph; general topography levelling; contour surveying; stadia surveying; photographic surveying; land systems of the Dominion and provinces. Mr. Kelly.

Text-books:—Johnson and Smith's Theory and Practice of Surveying; Breed and Hosmer's Principles and Practice of Surveying Vol. 1.

347. FIELD WORK. (1) Compass and chain, compass and micrometer, and chain surveying.

(2) Differential, profile, topographic and quantity levelling.

(3) Azimuth and deflection angle traversing, accurate methods of angle measurement, and stadia surveying.

348. MAPPING. Drafting from field notes of chain and stadia surveys; plotting topographical features; tinting maps with water-colours. Plotting photographic surveys.

Third Year.

351. MAP PROJECTIONS. Graphical determination of spherical triangles; spherical projections, and the construction of maps. Mr. Weir.

Text-book:—Deetz and Adams' Elements of Map Projections.

352. SURVEYING. Theory and use of instruments; hydrographic surveying; the use of the plane table; mining surveying; barometric and trigonometric levelling; elements of practical astronomy. Mr. Kelly.

Text-book:—Johnson and Smith's Theory and Practice of Surveying.

Reference book:—Durham's Mine Surveying.

353. SURVEYING. Theory and use of instruments; the use of the plane table; mining surveying; magnetic surveying; hydrographic surveying; barometric and trigonometric levelling; theory and setting-out of transition curves; elements of geodetic surveying; elements of practical astronomy. Mr. Weir.

Text-books:—Johnson and Smith's Theory and Practice of Surveying; Hosmer's Practical Astronomy.

354. FIELD WORK. (1) The adjustments of the instruments; (2) the preliminary, topographic and location surveys for a railway, including simple, compound, transition and vertical curves, profile levelling, cross-sectioning for construction, and plotting of field notes; (3) a topographic survey with the stadia transit and plane table; (4) a hydrographic survey of a river channel, including measurement of discharge; (5) a survey at night illustrating underground methods; (6) astronomical observations with engineer's transit.

Fourth Year.

359. GEODESY. The determination of time, latitude, longitude and azimuth; figure of the earth, measurements of base lines and triangulation systems; adjustment and reduction of observations. Mr. Weir.

Text-book:—Hosmer's Geodesy.

361. FIELD WORK. (1) Determination of latitude, (*a*) by transit and sextant observations of Polaris, (*b*) by zenith telescope, (*c*) by noon observations with transit and sextant; (2) determination of azimuth, (*a*) by equal altitude observations of the sun, (*b*) by observations of elongation of Polaris, (*c*) by observation of a circumpolar star with engineer's transit, (*d*) by means of solar attachments and solar compass; (3) determination of time (*a*) by equal altitude observations of the sun with sextant and transit, (*b*) by observations of the meridian passage of stars with astronomical transit; (4) determination of longitude by clock comparison; (5) base line measurements; (6) precision levelling; (7) measurement of angles by geodetic methods; (8) plane table surveys.

360. GEODETIC LABORATORY. The following determinations of the constants and errors of surveying instruments are made in the geodetic laboratory by the Fourth Year students in the Civil Engineering course:

—Measurement of (1) magnifying power, (2) eccentricity of circles, (3) inclination error in astronomical transits by nadir observations; determinations of (4) gravity by means of the reversible pendulum, (5) errors of run of theodolite microscopes, (6) constants of steel tapes, (7) scale value of level vials, (8) collimation error of astronomical transits by fixed collimators and by nadir method; investigation of the errors of graduation of (9) steel bars, (10) steel tapes, (11) transit circles, (12) the testing of aneroid barometers.

Field Work.

Field work is required of all students entering the Second Year, of students of the Third Year in the courses of Civil and Mining Engineering, and of the Fourth Year in Civil Engineering. The work will begin in 1926 on or about April 27th and will continue for four weeks.

Students entering Second and higher Years from other Universities or from other Faculties and who cannot attend the above course in Field Work, must attend Special Summer Schools, details of which are given on page 231.

All students are required to keep complete field notes, and to prepare maps, sections and estimates for their own surveys. This office work is principally done during the regular summer school session.

REGULATIONS CONCERNING PREREQUISITE SUBJECTS, STANDING AND PROMOTION.

(1) Students proceeding to a degree shall be classed as Undergraduates or Conditioned Undergraduates. Undergraduates are those who, having passed all entrance requirements, have also at the close of any session passed the examinations in all the subjects of their course, or who, at the opening of the following session, have removed all conditions by passing supplemental examinations in the subjects in which they have failed. Conditioned Undergraduates are those who have failed to remove all of their conditions as above.

(2) No student proceeding to a degree shall be allowed to take any subject, unless he has previously passed, or secured exemption in, all prerequisite subjects.*

(3) No Conditioned Undergraduate shall be permitted to take any Third or Fourth Year work until all First or Second Year subjects respectively shall have been passed. The Faculty may, however, waive this rule in special cases on recommendation of the Committee on Registration, Standing and Promotion.

(4) Conditioned Undergraduates proceeding to a degree must follow a course of study approved by the Faculty on the recommendation of the Committee on Registration, Standing and Promotion. They may be required to repeat subjects in which they have passed, but in which their standing has been low.

(5) Partial students are those who are not proceeding to a degree. Such students may be admitted to classes without regard to the prerequisite rule, provided that they have obtained the permission of the head of each department concerned, and have also had their courses approved by the Committee on Registration, Standing and Promotion.

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*Prerequisite subjects are those which, in the opinion of the Faculty, must be mastered before the subjects to which they are prerequisite can be intelligently studied. (See pages immediately following.)

Concurrent subjects are related subjects which should be studied in the same session.

(6) If a partial student wishes to obtain undergraduate standing in order to proceed to a degree, he shall not be given credit for subjects taken in contravention of the prerequisite rule until he has also passed examinations or secured exemptions in such prerequisites as may be demanded by the Committee on Registration, Standing and Promotion, and, on the recommendation of this Committee, has had his case approved by a unanimous vote of the Faculty.

No Fourth Year student shall be allowed a supplemental or special supplemental examination in any subject in the period between the opening of the second term and the date of Convocation.

PREREQUISITE AND CONCURRENT SUBJECTS

No.	Year	Subject	Prerequisite	Concurrent
1	II	Arch. Design A	18, 33, 38	6
2	III	" " B	1	7
3	IV	" " C	2	8
4	V	" " D	3	
5	I	Elements of Architecture		
6	II	Elements of Composition		
7	III	Theory of Design	1	
8	IV	Theory of Planning	1	
9	III or IV	Ornament and Decoration	34, 39	
10	III or IV	" " "	34, 39	
11	III or IV	" " "	34, 39	
12	III or IV	" " "	34, 39	
14	II	History of Arch. (Classic)		34
15	III or IV	" " (Mediaeval)		35
16	III or IV	" " (Renaissance)		36
17	V	" " (Modern)	14	
18	I	Architectural Geometry I		
19	II	Arch. Geometry II	18	
22	IV or V	Hygiene of Buildings		
23	IV or V	Heating and Ventilation		
24	II	Building Construction		
25	II	Building Details		
26	II	Architectural Engineering I		24
27	II	Arch. Engineering I (Draughting)		
28	III or IV	Architectural Engineering II A		26
29	III or IV	Arch. Eng. II A (Draughting)	26	
30	III or IV	Architectural Engineering II B	26	28
31	III or IV	Arch. Eng. II B (Draughting)	26	
32	V	Professional Practice	26	30
33	I	Architectural Drawing	24	
34	II	" "		5
35	III	" "		
36	IV	" "		
37	V	" "		
38	I	Historical Drawing		
39	II	Freehand Drawing		
40	III	" "		
41	IV	" "	38	
42	IV	" "	39	
43	V	Modelling	40	
44	I	"		
45	I	Physics (Arts)	42	
		Physics Lab. (Arts)		

No.	Year	SUBJECT	Prerequisite	Concurrent
46	II	Architectural Essay	.....	
47	III	" "	.....	
48	IV	" "	.....	
49	V	" "	.....	
50	II, III, IV, & V	Summer Work	.....	
51	II	General Chemistry	311, 312	52
52	II	Gen. Chem. Lab. (Eng. Students)	311, 312	51
54	III	Inorg. Qual. Anal.—Summer School (Chem. Eng. and Met. Eng. Students)	51, 52	55
55	III	Inorg. Qual. Anal. Lab.—Summer School (Chem. Eng. and Met. Eng. Students)	51, 52	54
56	III	Organic Chemistry	51, 52	57
57	III	" " Lab	.....	56
58	III	Physical Chemistry	51, 52	
59	III	Inorg Qual. Anal	51, 52	60
60	III	" " " Lab	.....	59
61	III	" Quant. "	51, 54	62
62	III	" " " Lab	.....	61
64	IV	Advanced Organ. Chem	56, 57	65
65	IV	Advanced Organic Laboratory	56, 57	64
66	IV	Physical Chem. and Lab	58	
67	IV	Inorg. Lab	61, 62	
68	IV	Industrial Chemistry, Inorganic	61, 62	
69	IV	Industrial Chemistry, Organic	61, 62	
70	IV	Applied Electro-Chem	51, 52	
71	IV	Inorg. Quant. Anal. (Mining Students)	59, 60	
72	IV	Adv. Inorg. Chemistry	58	
73	IV	Food Chemistry	56, 57	65
74	IV	History of Chemistry	51, 56	
75	IV	Colloid Chemistry	56,57,58,59,60	
80	I	Engineering Problems	.....	
81	II	Materials of Construction	.....	
82	III	Sanitary Science	.....	
83	II	Mechanics	194	198
85	III	Highway Engineering	.....	
86	III	Mechanics	83, 198	
87	III	Strength of Materials	83, 198	
88	III	" " Lab	.....	87
89	III	Foundations	.....	87
90	III	Structural Engineering	.....	87
92	III	Railway Engineering	83,346,347,348	
93	III	" "	83,346,347,348	92
94	IV	Theory of Structures	87	
95	IV	Strength of Materials	87	
96	IV	Bridge Design	90	94
96a	IV	" "	90	94
97	III & IV	Hydraulics	83	
98	III & IV	" Lab	.....	97
99	IV	" Machines	.....	97
100	IV	Hydraulics and Lab. (Short Course)	83	
101	IV	Municipal Engineering	97, 98	
102	IV	Water Supply & Sewerage	82, 97, 98	
103	IV	Waste Disposal	.....	
104	IV	Civic Administration	.....	
111	III & IV	Elements of Elec. Eng	198, 315, 316..	
111a	III & IV	" " "	198, 315, 316..	
112	III & IV	Elec. Eng. Lab. (Elementary)	.....	111
112a	III & IV	" " "	198	
113	III	Electrical Engineering	198	
114	III	Elec. Engineering Lab	.....	113
117	IV	Electrical Engineering	113, 114, 201..	320, 321
118	IV	Elec. Eng. Lab. (Elec. Eng. Students)	113	117
120	IV	Elec. Light and Power Distribution	.....	117, 118

No.	Year	Subject	Prerequisite	Concurrent
121	IV	Electric Traction	.....	117, 118
122	IV	Electrical Designing	232	117, 118
123	IV	Applications of Electricity	113	117
124	IV	Elec. Photometry and Illumination	113	117
131	I	English Composition	.....	
132	II	Summer Reading	.....	
133	III	Summer Reading or Essay	.....	
134	IV	Summer Essay	.....	
141	III	Geology, General	.....	
142	III	Mineralogy	51	
143	III	Mineralogy, Determinative	51	
146	IV	Petrography and Lab	141	
147	IV	Petrography (Advanced)	141, 142, 143.	
148	IV	Ore Deposits and Economic Geol.	141	
149	IV	Geology of Canada	141	
151	IV	Crystallography	142	
152	IV	Geology, Historical	141, 142, 143..	
153	IV	Geology Fieldwork (with 294)	141, 142, 143..	
170	I	History of Science	.....	
171	III	Elements of Political Economy	.....	
172	IV	Canadian Economic Problems	171	
175	IV	Engineering Law	.....	
191	I	Geometry	.....	
192	I	Algebra	.....	
193	I	Trigonometry	.....	
194	I	Mechanics	.....	
197	II	Analytic Geometry	.....	
198	II	Calculus	192	
201	III	Calculus	198	
211	I	Mechanical Drawing	.....	
218	II	Mechanics of Machines	191, 192, 194..	
223	III	Mech. Eng. Lab. (Elec. Eng. Students)	.....	226
224	III	Mechanics of Machines	83, 218	
225	III	Machine Design	.....	87, 231 or 232
226	III	Mech. Eng. (General Course)	.....	228
227	III	" " (Mech. Eng. Students)	.....	228
228	III	" " Lab	.....	226, 227
229	III	Thermodynamics	198	
231	III	Mech. Drawing (Mech. Eng. Stud.)	.....	225
232	III	" " (Elec. Eng. Stud.)	.....	225
236	III	Machine Shop Work	.....	
237	III	Industrial Engineering	.....	
238	III	Accounting	.....	
240	IV	Mechanics of Machines	224	
241	IV	Designing	225, 231	242
242	IV	Mach. Design (Mech. Students)	225	
243	IV	Mach. Design (Elec. Students)	225	
244	IV	Power Plant Design	227	
247	IV	Heat and Ventilation of Buildings	227	244
249	IV	Mech. Eng. Lab	227, 228	
249a	IV	Mech. Eng. Lab. (alt.)	227, 228	
251	IV	Thermodynamics	228, 229	
252	IV	Machine Shop Work	236	
253	IV	Industrial Engineering	238	
254	IV	Industrial Administration	.....	252
257	IV	Experimental Engineering	227, 228	249
258	IV	Industrial Relations	.....	
261	III	Elem. Metallurgy and Laboratory	51	
262	III	Elem. Metal. (Chem. Eng. Stud.)	51	
263	III	Fire Assaying	51, 52	264
264	III	Fire Assaying Laboratory	51, 52	263
265	III	Metall. Calculations	.....	261
267	IV	Metall. Field School	.....	
271	IV	Metallurgy (General)	261	
272	IV	" (Advanced)	261	271

No.	Year	SUBJECT	Prerequisite	Concurrent
273	IV	Fire Assay. & Lab. (Chem. Eng. Stud.)	261	
274	IV	Metall. Lab. and Thesis	261	271
275	IV	Electro-Metallurgy and Lab	51	
276	IV	" " " (Elec. Stud.)		
277	IV	Metall. Colloquium	261	271
278	IV	Metall. Calculations and Design	265	272
279	IV	Metall. Analysis	61, 62	67
280	IV	Metallography		
281	IV	Metallographic Lab		
282	IV	Metall. & Lab. (Chem. Eng. Students)		
291	III	Mining Engineering	51	
292	III	Ore Dressing and Laboratory		142, 226
293	III	Mine Mapping	346, 348	
294	III	Mining Field School	141	
295	III	Crushing and Grinding Machinery		226
297	IV	Mining Engineering	226, 291	
298	IV	Mining Machinery and Design	81, 226, 300	297
299	IV	Mining Machinery (Advanced)	315	297
300	IV	Ore Dressing and Milling	292	
301	IV	Mining Colloquium		297, 300
305	IV	Ore Dressing Laboratory	292	300
306	IV	Ore Dressing Lab. (Thesis Work)	264, 305	
311	I	Physics		
312	I	Physical Laboratory		311
315	II	Physics		
316	II	Physical Laboratory		315
320	IV	Physics (Electrical Engineering)	315, 316	
321	IV	Physical Laboratory (Elec. Eng.)		320
341	I	Descriptive Geometry		
342	I	Freehand Drawing		
343	I	Lettering		
345	II	Descriptive Geom. and Perspective	341	
346	II	Surveying	191, 193	
347	II	Surveying Fieldwork		
348	II	Mapping	343	
351	III	Map Projections	345	
352	III	Surveying (Miners)	346, 347	
353	III	Surveying (Civils)	346, 347	
354	III	Surveying Fieldwork	346, 347	
359	IV	Geodesy	353	
360	IV	Geodetic Laboratory		359
361	IV	Geodetic Fieldwork	353, 354	
400	IV	Military Science		

CONVERSE OF PREREQUISITE SUBJECTS

No.	Year	Prerequisite Subjects	Numbers of Subjects to which subjects in 3rd column are prerequisite
1	II	Arch. Design A	2, 7, 8
2	III	" " B	3
3	IV	" " C	4
4	V	" " D	
5	I	Elements of Architecture	
6	II	Elements of Composition	
7	III	Theory of Design	
8	IV	Theory of Planning	
9	III or IV	Ornament and Dcoration	
10	III or IV	" "	
11	III or IV	" "	
12	III or IV	" "	
14	II	History of Arch. (Classic)	17
15	III or IV	" " (Mediaeval)	
16	III or IV	" " (Renaissance)	
17	V	" " (Modern)	
18	I	Architectural Geometry I	1, 19
19	III	Architectural Geometry II	
22	IV or V	Hygiene of Buildings	
23	IV or V	Heating and Ventilation	
24	II	Building Construction	32
25	II	Building Details	
26	II	Architectural Eng. I	28, 29, 30, 31
27	II	Architectural Eng. I (Drafting)	
28	III or IV	Architectural Eng. II A	
29	III or IV	Architectural Eng. II A (Drft.)	
30	III or IV	Architectural Eng. II B	
31	III or IV	Architectural Eng. II B (Drft.)	
32	V	Professional Practice	
33	I	Architectural Drawing	1
34	II	" "	9, 10, 11, 12
35	III	" "	
36	IV	" "	
37	V	Historical Drawing	
38	I	Freehand Drawing	1, 39
39	II	" "	9, 10, 11, 12, 40
40	III	" "	41
41	IV	" "	
42	IV	Modelling	43
43	V	"	
44	I	Physics (Arts)	
45	I	Physics Lab. (Arts.)	
46	II	Arch. Essay	
47	III	" "	
48	IV	" "	
49	V	" "	
50	II III IV & V	Summer Work	
51	II	General Chemistry (Engineering Students)	54, 55, 56, 58, 59, 61, 70, 74, 142, 143, 261, 262, 263, 264, 275, 291
52	II	General Chemistry Lab. (Eng. Students)	54, 55, 56, 58, 59, 61, 70, 263, 264
54	III	Inorg. Qual. Anal. (Summer Sch.) (Chem. Eng. and Met. Eng.)	
55	III	Inorg. Qual. Anal. Lab. (Summer Sch.) (Chem. Eng. and Met. Eng.)	
56	III	Org. Chemistry	64, 65, 73, 74, 75
57	III	" " Lab.	64, 65, 73, 75
58	III	Physical Chem.	66, 72, 75
59	III	Inorg. Qual Anal.	71, 75
60	III	" " " Lab.	71, 75
61	III	" Quant. Anal.	67, 68, 69, 77, 279
62	III	" " " Lab.	67, 68, 69, 77, 279
64 to 75	IV	Year Subjects	

No.	Year	Prerequisite Subjects	Numbers of Subjects to which subjects in 3rd column are prerequisite
80	I	Engineering Problems	
81	II	Mat. of Constrn.	298
82	III	Sanitary Science	102
83	II	Mechanics	86, 87, 92, 97, 100, 224
85	III	Highway Engineering	
86	III	Mechanics	
87	III	Str. of Materials	94, 95
88	III	" " Lab.	
89	III	Foundations	
90	III	Structural Engineering	96
92	III	Railway Engineering	
93	III	" "	
94 to 96	IV	Year Subjects	
97	III & IV	Hydraulics	101, 102
98	III & IV	" Lab.	101, 102
99 to 104	IV	Year Subjects	
111	III & IV	Elem. Elec. Eng.	
112a	III & IV	Elec. Eng. Lab. (Elem.)	
113	III	Elec. Eng.	117, 118, 123, 124
114	III	Elec. Eng. Lab.	117
117 to 124	IV	Year Subjects	
131	I	English Composition	
132	II	English Summer Reading	
133	III	Summer Reading	
134	IV	Year Subject	
141	III	Geology, General	146, 147, 148, 149, 152, 153, 294
142	III	Mineralogy	147, 151, 152, 153
143	III	Mineralogy (Determinative)	147, 152, 153
146 to 153	IV	Year Subjects	
170	I	History of Science	
171	III	Economics	172
172	IV	Eng. Economics	
175	IV	Eng. Law	
191	I	Geometry	218, 346
192	I	Algebra	198, 218
193	I	Trigonometry	346
194	I	Mechanics	83, 218
197	II	Anal. Geometry	
198	II	Calculus	86, 87, 111, 111a, 113, 201, 229
201	III	Calculus	117
211	I	Mechanical Drawing	
218	II	Mechanics of Machines	224
223	III	Mech. Eng. Lab. (Elec. Eng. Course)	
224	III	Mech. of Machines	240
225	III	Machine Design	241, 242, 243
226	III	Mech. Eng. (General Course)	297, 298
227	III	" " (Mech. Eng. Stds.)	244, 245, 246, 247, 249, 249a, 257
228	III	" " Lab.	249, 249a, 251, 257
229	III	Thermodynamics	251
231	III	" (Mech. Eng. St.)	241
232	III	" (Elec. " ")	122
236	III	Machine Shopwork	252
237	III	Industrial Engineering	254
238	III	Accounting	253

No.	Year	Prerequisite Subjects	Numbers of Subjects to which subjects in 3rd column are prerequisite
240 to 258	IV	Year Subjects	
261	III	Elem. Metallurgy & Lab	271, 272, 274, 277, 278
262	III	Elem. Metallurgy (Chem. Eng. Course)	
263	III	Fire Assaying	273
264	III	Fire Assaying Lab	306
265	III	Metal. Calculations	278
267 to 282	IV	Year Subjects	
291	III	Mining Eng	297
292	III	Ore Dressing and Lab	305
293	III	Mine Mapping	
294	III	Mining Field School	
295	III	Crushing and Grinding Machinery	
297 and 298	IV	Year Subjects	
299	IV	Ore Dressing and Milling	298
300	IV	Ore Dressing Lab	298
301 and 306	IV	Year Subjects	
311	I	Physics	51, 52
312	I	Physical Lab	51, 52
315	II	Physics	111, 111a, 320, 299
316	II	Physical Lab	111, 111a, 320
320	IV	Physics (Elec. Eng.)	
321	IV	Physical Lab. (Elec. Eng.)	
341	I	Desc. Geom	345
342	I	Freehand Drawing	
343	I	Lettering	348
345	II	Desc. Geometry and Perspective	351
346	II	Surveying	92, 293, 352, 353, 354
347	II	Surveying Fieldwork	92, 352, 353, 354
348	II	Mapping	92, 293
351	III	Map Projections	
352	III	Surveying (Miners)	
353	III	" (Civils)	359, 361
354	III	" Fieldwork	361
359 to 400	IV	Year Subjects	

EXAMINATION TIME TABLES.

I.—Supplemental Examinations.

Supplemental examinations for all subjects of the First, Second and Third Years Applied Science are held in September. A schedule of these examinations may be obtained from the Dean.

II.—Sessional Examinations.

Note:—The following numbers correspond with the subjects in the prerequisite list and the departmental descriptions. Examinations begin at Nine A.M. and Two P.M., and normally last three hours.

Time Table, First Term Examinations (Subject to Revision).

Date		First Year	Second Year	Third Year	Fourth Year
January 15th	A.M.	....	....	9, 82, 261, 262, 351	9, 300, 359
" "	P.M.	....	....	....	70 258
January 16th	A.M.	191	....	86	120, 149, 280, 282
" "	P.M.		197	265	273
January 18th	A.M.	....	....	97, 295, 352	97, 100, 103
" "	P.M.	44	....	....	172
January 19th	A.M.	....	....	59, 61, 92, 237	22, 67, 68, 71, 104, 124, 148a
" "	P.M.	....	....	....	....

SECOND TERM TIME TABLE EXAMINATIONS (Subject to Revision)

(First three years in Engineering and the whole course in Architecture)

DATE		FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH AND FIFTH YEARS
April 19th	A.M.	....	....	56, 85, 224, 238, 292	....
" "	P.M.	18, 341	19, 345	....	17
April 20th	A.M.	....	81	90, 201	....
" "	P.M.	193	....	....	23
April 21st	A.M.	....	51	10, 171	10
" "	P.M.	131	6, 52	7, 291	7, 32
April 22nd	A.M.	5	88	....	....
" "	P.M.	....	315	....	.. ..
April 23rd	A.M.	44, 311	....	30, 87	30, 175
" "	P.M.	....	346	....	....
April 24th	A.M.	192	26	16, 226, 227	4, 16
" "	P.M.	....	83	....	4
April 26th	A.M.	215	24	61, 141, 225	4
" "	P.M.	....	198	141	4
April 27th	A.M.	194	....	223, 228	4
" "	P.M.	....	14, 221	....	4
April 28th	A.M.	33	....	111, 113, 192, 353	4
" "	P.M.	....	218		4
April 29th	A.M.	....	....	89, 229, 263	4
" "	P.M.	....	....	58	4

SECOND TERM EXAMINATIONS (Subject to Revision).

DATE		FOURTH YEAR
May 3rd	A.M.	175
" "	P.M.	75, 237
May 4th	A.M.	123, 152, 244, 279
" "	P.M.	151, 272
May 5th	A.M.	64, 117, 247, 271
" "	P.M.	101, 102
May 6th	A.M.	73, 95, 251, 254
" "	P.M.	122, 148
May 7th	A.M.	69, 94, 240, 253, 320
" "	P.M.	146
May 8th	A.M.	72, 121, 249, 249a
" "	P.M.	111, 147, 299
May 10th	A.M.	278, 298
" "	P.M.	66, 96, 96a, 242, 243
May 11th	A.M.	74, 297
" "	P.M.	99, 275, 276
May 12th	A.M.	67, 111a, 257
" "	P.M.	....

III.—THE LECTURE TIME TABLES.

Complete time tables for all lectures and laboratory work are bulletined in the Engineering Building, and copies may be obtained from the Dean of the Faculty.

FACULTY OF MEDICINE

HISTORICAL SUMMARY

(Medical Faculty).

1821-1925

1744	James McGill, born October 6th (Founder's Day). Died 1813.
1801–02	Royal Institution for Advancement of Learning contemplated by Provincial Act of Parliament.
1811	Will by James McGill leaving landed estates and £10,000 to Royal Institution for Advancement of Learning for founding a University.
1818	Royal Institution for Advancement of Learning incorporated. Montreal General Hospital opened on original site on St. Lawrence Street.
1821	Royal Charter granted to the Royal Institution for the Advancement of Learning for the foundation of McGill College. Corner-stone of new Montreal General Hospital laid.
1822–24	Montreal Medical Institution organized as a Medical School by Officers of Montreal General Hospital. At opening lecture at No. 20 St. James Street on October 28, 1824, there were four teachers and twenty-five students.
1829	Estate of James McGill surrendered by residuary legatee. First meeting of Governors at Burnside House. Montreal Medical Institution "engrafted upon" McGill University as its Medical Faculty. First session of Faculty of Medicine.
1831	Medical Faculty petitioned Legislature for permission to grant degrees, and framed statutes to fulfil conditions of charter for same by order of Solicitor-General.
1832	Statutes approved and permission to confer degrees granted to Medical Faculty, and Professorships granted by Crown to Drs. Holmes, Caldwell, Robertson and Stephenson.
1833	First University degree conferred in Medical Faculty upon W. Logie.
1836–37	Faculty removed to building next to present Bank of Montreal.
1840	Faculty removed to St. George Street.
1842	Arts Building erected on University grounds, where medical lectures were held 1845-51.
1852	Faculty removed to Coté Street.
1855	Sir William Dawson appointed Principal.
1860	Geo. W. Campbell appointed Dean, serving till 1882.

1872	First independent Medical Faculty building on University ground.
	Graduation of William Osler.
1882	Geo. W. Campbell Memorial Fund for Medical Faculty.
	Leanchoil Endowment Fund for Medical Faculty (Lord Strathcona).
	R. P. Howard appointed Dean.
1885	New laboratories erected in Medical Building (Lord Strathcona).
1889	Robert Craik appointed Dean—George Ross, Vice-Dean.
1893	Sir William Peterson appointed Principal.
	Pathological Laboratory erected (John H. R. Molson).
	Chairs of Hygiene and of Pathology endowed (Lord Strathcona).
	Mrs. Mary Dow Endowment Fund presented to Medical Faculty.
1894	Royal Victoria Hospital opened (Lord Mount-Stephen and Lord Strathcona).
1898–01	Medical Faculty Building reconstructed and enlarged with new laboratories, etc. (Lord Strathcona).
	Joseph Morley Drake Chair of Physiology founded.
1901	Thomas G. Roddick appointed Dean.
1906	Alexandra Hospital for Infectious Diseases opened.
1907	Medical Building partly destroyed by fire.
1908	F. J. Shepherd appointed Dean.
1909–11	New Medical Building (as at present) erected. (Lord Strathcona).
1911	Robert Reford endowment of Department of Anatomy.
	Arthur A. Browne Memorial Fund for Research established.
	Dr. James Douglas lectureship in Pathology founded.
	Dr. James Douglas lectureship research fellowship in Pathology founded.
1912	Eddie Morrice Laboratory of Pharmacology opened (D. Morrice).
	James Cooper Endowment Fund established for Internal Medicine.
1914	H. S. Birkett appointed Dean.
	No. 3 General Hospital organized for Overseas service.
	New Foundling Hospital opened.
1916	Ross Memorial Pavilion opened by H.R.H. Duke of Connaught.
1917	Geo. Ross Endowment Fund for Medical Faculty presented.
1919	Sir William MacDonald bequeathed $100,000 to Medical Faculty.

1919 Sir Auckland Geddes appointed Principal.

1920 Sir Arthur Currie appointed Principal.
Dr. J. W. Scane appointed Assistant Dean.
Sir William Osler's Medical Library bequeathed to McGill University.

1921 Centenary Celebration.
Friends and Graduates of McGill donated $4,000,000 to University.
Province of Quebec donated $1,000,000 to University.
Rockefeller Foundation granted $1,000,000 to Medical Faculty.
F. G. Finley appointed Dean.

1922 Laboratories for Biological Sciences opened.
Geo. E. Armstrong appointed Dean.
New Outpatient Department erected at Royal Victoria Hospital.

1923 Pathological Institute erected.
C. F. Martin appointed Dean.

1924 Rockefeller Foundation gave $500,000 to Medical Faculty to establish University Clinic in Department of Medicine at Royal Victoria Hospital.
Amalgamation of Western Hospital with the Montreal General Hospital.

1925 Erection of Royal Victoria-Montreal Maternity Pavilion.

ENTRANCE REQUIREMENTS

A candidate for admission to the First Year in the Faculty of Medicine must present satisfactory evidence that he has completed two full years in the Faculty of Arts of any recognized University, or its equivalent, including lectures and laboratory work in:—

Chemistry (inorganic and organic), two years.
Physics, one year.
Biology, one year.

Courses specially designed to meet these requirements are offered in the Faculty of Arts of this University, where a student may take the two years of study required, or, if qualified (by Senior Matriculation or otherwise) may enter the Second Year, which comprises courses in Chemistry, Physics and Biology especially suited to the needs of prospective students in Medicine.

Intending students who wish to enter by certificate should under no circumstances come to the University without having obtained from the Registrar a statement of the value of the certificates they hold, as many of these may lack one or more essential subjects, or the work done in a subject may not be adequate, or, again, the percentage gained may not be sufficiently high. When a diploma or certificate does not show the marks obtained in the several subjects of the examination, it must be accompanied by an official statement containing this information.

APPLICATION FOR ADMISSION

Applications for admission to the Faculty of Medicine should be made upon the regular application form and addressed to the Secretary of the Faculty of Medicine and should be accompanied by:—

1. An official transcript of the applicant's high school and college record, showing that he has fulfilled the entrance requirements of the Faculty.
2. Two letters of recommendation as to character and general fitness, preferably from teachers of the pre-medical sciences under whom he has studied.
3. A small unmounted photograph of the candidate.

The number of students in each class is limited and applications will be received up to July 1st.

If the applicant be accepted he will be expected to pledge himself to enter the Faculty of Medicine in September; othrwise his place will be given to another eligible candidate.

A personal interview with the Dean or Secretary of the Faculty, when possible, is advisable.

APPLICATION FOR EQUIVALENT STANDING

A student of another Medical School who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit to the Secretary of the Faculty an official statement of his preliminary education and of the course he has followed and the standing he has obtained. This should be accompanied by a Calendar of the Medical School in which he has studied, giving a full statement of the courses of study, and by a certificate of moral character and conduct.

EXAMINATIONS

Frequent oral examinations are held to test the progress of the student, and occasional written examinations are given throughout the session.

Class examinations are held during the session in each of the First Year subjects, the marks therefor being added to the total marks obtained at the final examinations.

Any student of the First Year whose work at the end of the first term is judged to have been unsatisfactory may be asked to leave the University.

If the standing obtained by any student in the class examinations is not satisfactory, he shall not be permitted to take the final examinations.

A minimum of 50 per cent. in each subject is required to pass.

The work of one session must be completed and all examinations passed before a student is permitted to advance to the next.

Students who fail at the regular examinations in not more than two subjects may, at the discretion of the Faculty, be allowed to take the supplemental examinations before the beginning of the following session. These examinations will be held during the week preceding the regular opening of the session.

Students who fail to pass in a subject in which practical work is required may be required to repeat the course and furnish a certificate of attendance thereon.

Students who fail in one subject only of the Final Year may, at the discretion of the Faculty, be allowed a supplemental examination in that subject. Should the subject be one in which practical or clinical work is required, the student must furnish a certificate of additional hospital attendance or laboratory work before presenting himself for examination.

A student who, after being registered in the First, Second, Third or Fourth Year for two successive sessions, fails to qualify for advancement, or who, after being registered in the final year for two successive sessions, fails to qualify for the degree, shall not be permitted to register again as a student of Medicine in the University.

Applications for supplemental examinations must be in the hands of the Secretary of the Faculty at least three days before the day set for the beginning of the examination, and they must be accompanied by a fee of $5.00 for each subject. This fee is payable to the Bursar.

REQUIREMENTS FOR THE DEGREE OF M.D., C.M.

1. Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University, must be at least twenty-one years of age and of good moral character.

2. He must have fulfilled all of the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for five full sessions of not less than eight months each in this University or in some other university, college or school of Medicine, approved by this University.

3. No one shall be permitted to become a candidate for the degree who shall not have attended at least one full session at this University.

4. Every candidate for the degree must have passed all of the required examinations in the subjects comprising the five years of the Medical course.

5. He must have attended during at least twenty-four months the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one hundred beds) approved by this University; and must have acted as clinical clerk for six months in Medicine and six months in Surgery and have reported at least ten medical and ten surgical cases.

6. He must also have attended during one full session the practice of the Montreal Maternity or other lying-in hospital approved by the University, and have acted as assistant in at least twenty cases.

7. Every candidate must also have administered, under direction, at least six anæsthetics and have assisted at not less than six autopsies.

8. The following oath or affirmation will be exacted from the candidate before receiving his degree:—

Ego, A—— B——, Doctoratus in Arte Medica titulo jam donandus, Sancto coram Deo cordium scrutatore, spondeo:—me in omnibus grati animi officiis erga hanc Universitatem ad extremum vitæ halitum persevaturum; tum porro artem medicam caute; caste et probe exercitaturum et, quod in me est, omnia ad ægrotorum corporum salutem conducentia cum fide procuraturum; quæ denique inter medendum visa vel audita silere conveniat, non sine gravi causa vulgaturum. Ita præsens mihi spondenti adsit Numen.

REQUIREMENTS FOR LICENSE TO PRACTISE

Intending students are reminded that a University degree in Medicine does not in itself confer the right to practise the profession of medicine. In each Province of Canada and in each of the United States the right of licensure is vested in a Licensing Body which has its special laws and requirements and in many cases a special standard of general education is insisted upon before beginning the study of medicine. One of the requirements in the several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a license to practise can be obtained. In order that disappointment and loss of time may be avoided upon graduation it is, therefore, strongly advised that students should register with the licensing body of their home province before beginning their medical course. In any case they must be registered not later than the end of the First Term.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards, as follows:—

QUEBEC.—Dr. J. Gauvreau, 364 St. Catherine Street E., Montreal.

ONTARIO.—Dr. H. Wilberforce Aikens, 170 University Ave., Toronto, Ont.

NEW BRUNSWICK.—Dr. S. H. McDonald, 56 Colborne St., St. John, N.B.

NOVA SCOTIA.—Dr. W. H. Hattie, Halifax, N.S.

PRINCE EDWARD ISLAND.—Dr. James Warburton, Kent Street, Charlottetown, P.E.I.

NEWFOUNDLAND.—Dr. T. Mitchell, St. John's Nfld.

MANITOBA.—Dr. J. E. Coulter, 604 Boyd Bldg., Winnipeg, Man.

ALBERTA.—Dr. George R. Johnston, Calgary, Alta.

SASKATCHEWAN.—Dr. A. MacG. Young, Saskatoon, Sask.

BRITISH COLUBIA.—Dr. A. P. Proctor, Vancouver, B.C.

DOMINION REGISTRATION

In order to take the examination of the Medical Council of Canada a candidate must have the license of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board that he holds qualifications accepted and approved of by the Medical Board of said province.

Full information may be obtained by writing to the Registrar, Dr. R. W. Powell, 180 Cooper Street, Ottawa, Ontario.

GENERAL COUNCIL OF MEDICAL EDUCATION AND ENREGISTRATION OF GREAT BRITAIN

The Matriculation Examination in Medicine of this University is accepted by the General Medical Council of Great Britain. Graduates of this University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance on lectures, practical work and clinics are also accepted by the various examining boards in Great Britain. To obtain a license from the General Council it is necessary to pass one of the examining boards of Great Britain in both primary and final subjects.

Detailed information may be obtained from one of the three registrars: Henry E. Allen, B.A., 299 Oxford Street, London; James Robertson, 54 George Street, Edinburgh; Richard J. E. Roe, 35 Dowson Street, Dublin.

RECIPROCITY WITH GREAT BRITAIN

The General Council of Medical Education and Enregistration of Great Britain has entered into reciprocal relations with the Medical Boards of the Provinces of Quebec, Ontario, Nova Scotia, New Brunswick, Prince Edward Island, Saskatchewan, Manitoba, and Alberta. A holder of a degree in Medicine of McGill University who has obtained the license of the Province of Quebec, may register with the Medical Council of Great Britain, and will be able to practise in Great Britain, South Africa, Australia, India and the West India Islands without further examination.

UNDERGRADUATE COURSES

1. THE MEDICAL COURSE

The course leading to the degree of M.D., C.M., consists of five sessions of eight months each, the subjects being arranged as follows:—

First Year

Anatomy	360 hours
Histology and Embryology	180 "
Physiology	150 "
General Physiology	60 "
Normal Psychology	20 "
Introduction to Public Health and Preventive Medicine	30 "

Second Year

Anatomy (including organogenesis)	360 hours
Biochemistry	270 "
Physiology	180 "
Bacteriology	120 "
History of Medicine	15 "

Third Year

Medicine	150 hours
Surgery	150 "
Pathology	150 "
Pathological (Clinical) Chemistry	60 "
Clinical Microscopy	60 "
Hygiene	90 "
Pharmacology	150 "
Abnormal Psychology	30 "

Fourth Year

Medicine (including Pediatrics, Neurology, Psychiatry and Dermatology)	350 hours
Surgery (including Orthopedic Surgery and Urology)	300 "
Obstetrics and Gynæcology	60 "
Pathology	105 "
Clinical Therapeutics	30 "
Medical Jurisprudence	40 "

Fifth Year. (Hospital Year)

The session is divided into three trimesters of nine weeks each and a final Optional Period of four weeks (during the month of April).

During the three trimesters the time is devoted almost entirely to hospital work, the students acting as clinical clerks and concentrating in Medicine in one trimester, in Surgery in another and in Obstetrics, Gynæcology and the specialties in a third. At the end of each trimester there is a clinical examination.

Theatre clinics in Medicine and Surgery are attended by all students throughout the whole session.

During the last four weeks of the session the work of the student will depend upon the standard he has attained in the trimester clinical examinations.

(a) Those students who have attained a sufficiently high grade in these examinations while carrying the theatre clinics in Medicine and Surgery will be permitted to elect the subjects which they will study during this period.

(b) Those students who fail to attain the necessary grade in the trimester clinical examinations will be required, in addition to the theatre clinics in Medicine and Surgery, to pursue further work in the regular sessional subjects, especially in those subjects in which they are weak.

2. DOUBLE COURSES IN ARTS AND MEDICINE

B.A., M.D.

The degrees of B.A. and M.D. may be obtained in eight years.

The first three years are taken in the Faculty of Arts, Physics being taken in the First Year, Chemistry 1 in the Second Year and pre-medical Biology and Chemistry in the Third. This is followed by the regular five-year course in the Faculty of Medicine, the B.A. Degree being granted on completion of the first medical year.

B.Sc., M.D.

The degree of B.Sc. and M.D. may be obtained in eight years. Students who wish to proceed to advanced work in physiology, biological chemistry, pharmacology or allied subjects can qualify by taking the first four years of this course.

First Year

English 1 and 2, German 3, Mathematics 1, Physics 1, Chemistry 1, French 16.

Second Year

German 4 *or* **French 2, Physics 2, Botany 2, Zoology** (premedical)), **Chemistry 3.**

Third Year

Chemistry 2 and 4, General Physiology (as in First Year Medicine), **Zoology 4 and 7, Physics 3A, Botany 4, Histology and Embryology** (as in First Year Medicine).

Fourth Year

Chemistry 7 and 10, Anatomy (as in First Year Medicine) *or* **Special Advanced Biology, Physiology** (as in First Year Medicine).

3. COURSE LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN MEDICINE

The requirements for this degree are as follows:—

1. Honour standing in the examination in any two of the following subjects:—Anatomy (including Histology and Embryology), Physiology, Biochemistry, Pharmacology and Pathology.

2. In addition to the regular undergraduate courses in Medicine, 240 hours of specialized study in a third one of these subjects, under the guidance of the department concerned and approved by the B.Sc. (Med.) Committee. In the examinations in the special subject honour standing will be exacted.

Candidates are strongly recommended to acquire a reading knowledge of both German and French, and their attainments, as shown by their record in the class lists in the undergraduate course, must be distinctly above those of the average student.

COURSES OF INSTRUCTION

ANATOMY

THE ROBERT REFORD PROFESSOR:—S. E. WHITNALL.
ASSOCIATE PROFESSOR OF HISTOLOGY AND EMBRYOLOGY:—J. C. SIMPSON.
ASSISTANT PROFESSOR OF ANATOMY:—I. MACLAREN THOMPSON.
ASSISTANT PROFESSOR OF HISTOLOGY:—F. SLATER JACKSON.
LECTURER IN HISTOLOGY:—W. M. FISK.
LECTURER IN ANATOMY:—H. E. MACDERMOT.
SENIOR DEMONSTRATOR IN ANATOMY:—A. D. CAMPBELL.
DEMONSTRATOR IN HISTOLOGY AND EMBRYOLOGY:—IVAN PATRICK.

DEMONSTRATORS:—
F. N. K. FALLS.
G. A. FLEET.
J. G. W. JOHNSON.
H. BRUCE MALCOLM.
L. H. MCKIM.
T. M. RICHARDSON.
A. ROSS.
W. W. RUDDICK.
A. STEWART.
F. J. TEES.
N. T. WILIIAMSON.

PROSECTOR:—MR. WILLIAM MUIR.

The student begins the study of Anatomy in the First Year of his course, and during this and the Second Year the whole body is dissected twice. The aim of this part of the course is to establish the essential foundations upon which the practice of medicine and surgery is based; the importance of the application to the living body of the knowledge gained in dissection is, therefore, emphasized throughout. During the Third and Fourth Years the subject is considered from the standpoint of its clinical bearing. Close co-operation between the anatomical, histological and embryological parts of the course is maintained during the whole four years.

First Year

1. Elementary Anatomy:—The student dissects the whole body, including the brain, aiming at a general knowledge of the form and relations of the systems and organs without detailed consideration.

Stress is laid upon the importance of function in determining form and structure, and the osteology and surface anatomy are studied concurrently. Whole session, 330 hours.

Text-books:—Gray's "Anatomy" (English edition); Walmsley's "Practical Anatomy."

2. Histology and Embryology:—A course of lectures and practical work on the general problems of development and on the early stages of development of the human embryo and a detailed study of the microscopic structure of the tissues and organs of the human body. Whole session, 180 hours.

Text-book:—Jordan, "Text-book on Histology."

Reference books:—Kellicott, "Text-book of General Embryology"; Bailey and Miller; Prentiss and Arey, "Text-book of Embryology."

Second Year

3. Advanced Anatomy:—The whole body is dissected for the second time and in detail. In this year regional and cross-section anatomy receive special attention and, in correlation with course 4, the nervous system and sense organs are further studied.
Whole session, 360 hours.

Text-books:—As before.

4. Organogenesis:—The development of the organs and systems of the human body, co-ordinating with course 3.
Whole session, 60 hours.

Text-book:—Bailey and Miller "Text-book of Embryology."

Reference:—"Reference Handbook of Medical Sciences," new edition, 1922, Keibel and Hall.

Dictionary:—Every student is advised to provide himself with a good medical dictionary as an essential part of his text-book equipment. Any one of the following may be recommended:—Stedman, Dorland, Gould, Lippicott's, American.

Post-Graduate Study

Material and preparations for post-graduate study are always available, and a special effort will be made to assist graduates in the investigation of any part of the subject in which they are interested. Special courses are given in Ophthalmology and Oto-Laryngology.

Physical Anthropology

The Department is prepared to give a course of special instruction in the methods and application of this subject.

BIOCHEMISTRY AND PATHOLOGICAL CHEMISTRY

PROFESSOR:—A. B. MACALLUM.

ASSISTANT PROFESSOR:—S. W. BLISS.

DEMONSTRATORS:— { H. L. CAMERON. J. C. FORBES.

LECTURERS ON PATHOLOGICAL CHEMISTRY:— { E. H. MASON. I. M. RABINOWITCH.

There will be given two courses in the Session 1925-26, one of 270 hours to the class of the Second Year and a second of 80 hours to the class of the Third Year.

The course for the Second Year will be given throughout the Session and will involve three lectures and six hours of laboratory exercise per week. The lectures, during the first half of the session, will deal with the chemical constitution, the physical and other characters and the relationships of the products of the activities of living matter, carbohydrates, fats, proteins, urea, ureides, purins, etc., and in the second half will involve an extensive discussion of (a) the origin, character, and the active properties of the various ferments of the digestive tract; (b) the chemical and physical processes involved in, and the products resulting from, the digestion, absorption and assimilation of the foodstuffs, in the human body; (c) The intermediate and ultimate products of metabolism, and (d) the chemistry of the tissues and of blood, bile and urine.

In the laboratory course the exercises will deal with the practical side of the subjects treated in the lecture course, such as the digestion of starch, fats and proteins, the absorption and assimilation of fats, the metabolism of the carbohydrates absorbed, and of the products of protein digestion. Especial attention will be given to the methods of the qualitative determination of the more important metabolites, such as urea, uric acid, creatine, creatinine, etc.

In addition to the written and practical examination exacted of each student in this course, oral examinations will be held and the results thus obtained will, with those from the written and practical tests, serve to determine the standing of the student in the class list in Biochemistry for the year.

The course given in the Third Year will be devoted to Pathological Chemistry and will involve twenty lectures and sixty hours of laboratory exercises. It will deal with the metabolism in febrile conditions, deficiency diseases, diabetes, nephritis, hepatic disorders, etc. The laboratory exercises will cover the more exact methods of the determination of the constituents of the blood and urine in health and disease. On this course will be based the award of the Sutherland Medal.

Text-books:—Cole, "Practical Physiological Chemistry"; Halliburton, "Essentials of Chemical Physiology"; Plimmer, "Practical Organic and Biochemistry"; Folin, "Laboratory Manual of Biological Chemistry"; Hawk, "Practical Physiological Chemistry."

Reference:—Robertson, "Principles of Biochemistry"; Von Fürth, "Chemistry of Metabolism"; Bayliss, "Principles of General Physiology."

PHYSIOLOGY

THE JOSEPH MORLEY DRAKE PROFESSOR AND DIRECTOR OF EXPERIMENTAL MEDICINE:—JOHN TAIT.

ASSISTANT PROFESSSOR:—N. GIBLIN.

LECTURER:—G. J. CASSIDY.

DEMONSTRATORS:— H. E. BURKE. W. F. EMMONS.

In this department special provision is made not only for undergraduate but also for graduate instruction. There are full courses in Physiology proper for all undergraduates. For graduate purposes Physiology has been linked up with Experimental Medicine, and the department, working in intimate association with the hospital wards, forms the headquarters for research in clinical problems along instrumental or "experimental" lines. At the same time the available graduate instruction is not confined to the immediate medical applications of Physiology, provision being made for dealing with the science in some of its wider biological implications.

A. UNDERGRADUATE COURSES IN PHYSIOLOGY.

First Year

1. *Lectures:*—In this course, which coincides with the instruction in elementary anatomy and histology, the simple uses of the various parts of the body are expounded in relation to minute structure and in terms of experiment.

2. *Laboratory:*—Students work in pairs. The course comprises experiments on blood, on connective and epithelial tissue, on muscle, nerve, heart, blood-vessels and central nervous system. Frog material is largely used for the latter part of this course.

Class book:—Schäfer's "Experimental Physiology."

Second Year

3. *Lectures:*—With a view to medical applications the subject-matter of the previous lectures is reviewed in greater detail, the interrelations of parts being brought out by consistent cross-reference. On

suitable occasion comparative as well as historical methods of treatment are adopted. The intrinsic mechanism apart from the simple uses of individual elementary structure is subjected to preliminary discussion, while the phenomenon of regulation is also presented with examples.

Text-books:—Howell, Stewart, Starling.

4. *Laboratory:*—Students work for the most part in groups. The course includes mammalian operative work, and also observations on the human subject with clinical and other apparatus.

Class book:—Sherrington's "Mammalian Physiology."

5. *Hospital Clinics:*—Along with the formal instruction in physiology, clinical demonstrations are given in the hospital theatres on patients. The object of these demonstrations is to show the relation of physiology to symptoms of disease in the human subject.

B. Graduate Instruction in Physiology and in Experimental Medicine

Some of the following courses, which were originally designed for B.Sc. (Med.), for M.A. for M.Sc. and for Ph.D. candidates, are open to Honours optional students (as a reward for special application to study) and to the clinical teachers of the school.

6. *Special Lectures in Physiology:*—In this course, adapted to meet the requirements of clinicians, particular aspects of physiology are selected from year to year for special treatment. The lectures are open to clinical teachers, to Honours and to graduate students.

7. *Physiological Clinics:*—These are bedside lectures and demonstrations conducted in connection with Experimental Medicine. The cases which form the basis of these clinics are prepared by the Scholars in Experimental Medicine.

8. *Blood and Circulation:*—This course includes lectures, laboratory work and demonstrations. The following questions receive consideration:—Life-history of the corpuscles, hæmoglobinometry, hæmocytometry, hæmolysis, blood transfusion, coagulation and arrest of hæmorrhage, cytology of the cerebro-spinal fluid, methods of recording pulse and blood pressure, electrocardiography and experiments on the excised heart and vessels.

9. *Structure and Function:*—This course includes a review of modern work in biology in which structure, whether of the developing or of the adult animal, has been investigated by experimental means. The aim is to show the scope and place of physiology and of physiological method in relation to such problems. A special study is made of structural adaptations to physically new environment.

10. *Physiological Colloquium:*—This meets weekly and is limited to those engaged in research in the department.

11. *Tutorial Class:*—This class is held in connection with advanced graduate reading.

RESEARCH WORK

For particulars and facilities relating to research work in physiology and experimental medicine, and for subjects of theses required in connection with the degree of M.A., M.Sc., Ph.D. and D.Sc., application should be made to the professor. See also Announcement of the Faculty of Graduate Studies and Research.

STUDENTS' PHYSIOLOGICAL SOCIETY

Both undergraduate and graduate students will find it of advantage to become members of the Students' Physiological Society. In addition to the privilege of hearing from time to time addresses on special departments of the subject, members are entitled to consult and to borrow books of the library of the Society, which contains many standard text-books and special works.

GENERAL PHYSIOLOGY

PROFESSOR OF BOTANY:—FRANCIS E. LLOYD.

ASSISTANT PROFESSOR OF BOTANY:—GEO. W. SCARTH.

On the structure, properties and behaviour of protoplasm. Sixty hours during the First Year.

Reference books:—Verworn, General Physiology (translation by Lee); Bayliss, Principles of General Physiology; Bechhold, Colloids in Biology and Medicine (translation by Bullowa); McClendon, Physical Chemistry of Vital Phenomena.

PATHOLOGY AND BACTERIOLOGY

STRATHCONA PROFESSOR:—HORST OERTEL.

ASSOCIATE PROFESSOR OF PATHOLOGY:—L. J. RHEA.

ASSISTANT PROFESSOR OF BACTERIOLOGY:—A. A. BRUÈRE.

ASSISTANT PROFESSOR OF PATHOLOGY:—T. R. WAUGH.

LECTURERS:—C. T. CROWDY. J. W. SCOTT.

LECTURER AND DOUGLAS FELLOW:—A. L. WILKIE.

ASSISTANTS AND DEMONSTRATORS:—W. R. FLETCHER. T. JONES. C. S. THOMPSON. G. B. ZUMSTEIN.

TECHNICAL ASSISTANTS:—E. L. JUDAH, *Curator of Museum and Museum Laboratory.* B. THOMLINSON, *Head Technician in Pathology.* J. JAMES, *Technician in Bacteriology.* J. PARTRIDGE, *Technician in Pathology.* C. BORMICI, *Technician in Pathology.*

PATHOLOGY

A. SYSTEMATIC COURSES

1. The historical, philosophical and scientific foundations of pathology; the historic evolution of the conception of disease, its relation to other sciences and to philosophy; the hereditary foundations and the subjective and external causes of disease; the individual development of disease; the anatomic-histological lesions and their explanations; general somatic death. Lectures and demonstrations twice weekly throughout the session. Third Year.
Pathological Institute.....PROFESSOR OERTEL.

2. Special pathology and pathological anatomy; lectures on the diseases of the more important systems and organs, followed by demonstrations. Includes the circulatory, respiratory, digestive and renal systems. Two hours weekly, throughout the session.
Pathological Institute.....PROFESSOR OERTEL AND DEMONSTRATORS.

3. The diseases of the blood and of the blood-forming organs. Lectures and demonstrations, once weekly. First term. Fourth Year.
Pathological Institute.....PROFESSOR WAUGH.

4. The nervous system and the important glands of internal secretion. Once weekly. Second term. Fourth Year.
Pathological Institute.....DR. WILKIE.

B. PRACTICAL COURSES

5a. Laboratory course in general Pathological Anatomy and Histology. Five hours weekly. Second term. Third Year.

Pathological Institute.....Professor Oertel and Demonstrators.

5b. Laboratory course in special Pathological Anatomy and Histology. One hour weekly. Second term. Fourth Year.

Pathological Institute.....Professor Waugh and Demonstrators.

6. Practical Pathology: Demonstrations and discussion of anatomical and bacteriological material in relation to clinical cases.

Montreal General Hospital.....Professor Rhea.

7. Practical course of Pathologico-anatomical methods and diagnosis. Once weekly.

Pathological Institute.....Professor Oertel.

8. Performance of Autopsies.

Pathological Institute....
Professor Oertel, Dr. Wilkie and Demonstrators.

Montreal General Hospital....
Professor Rhea, Dr. Scott and Demonstrators.

9. Clinical Pathological Conferences.

Montreal General Hospital.....Clinical and Pathological Staffs.

10. Pathological Research (open to graduates) by appointment.

Pathological Institute and Montreal General Hospital....
Professors Oertel and Rhea and Dr. Waugh.

11. Pathological Colloquium for advanced students. Two hours weekly.

Pathological Institute.....Professor Oertel and Staff.

12. Colloquium on the more important elementary chapters of Pathology. Once weekly.

Pathological Institute.....Dr. Wilkie.

Reference books:—Oertel, General Pathology; Virchow, Cellular Pathology; Cohnheim, Lectures on Pathology; Ziegler, Specielle Pathologie; Delafield and Prudden, Text-book of Pathology; Wells, Chemical Pathology.

BACTERIOLOGY

1. Laboratory course in bacteriology, with explanatory lectures and demonstrations, autumn term.

Pathological Institute.

PROFESSOR BRUÈRE, DEMONSTRATORS AND ASSISTANT DEMONSTRATORS.

2. Bacteriological and Immunological Research (open to graduates). Pathological Institute.

PROFESSOR OERTEL AND PROFESSOR BRUÈRE, by appointment.

Reference books:—His and Zinsser; Muir and Ritchie; Jordan; McFarland; Mallory and Wright.

GRADUATE COURSES FOR HIGHER DEGREES

Courses 1, 5 and 10 in Pathology and 2 in Bacteriology are open to graduates for higher degrees and students of other Faculties.

PARASITOLOGY

During the session 1925-26, temporary arrangements will be made under the combined Chairs of Hygiene, Pathology and Clinical Medicine for a course of lectures and demonstrations in Parasitology, to deal with the more important features of this special line of work.

Demonstrations of special methods used in the study of animal parasites will be given in the Laboratories from time to time.

References:—Manson, Tropical Diseases (London, 7th Edition, 1921); Stitt, Practical Bacteriology, Blood Work and Animal Parasitology (Philadelphia, 6th Edition with Clinical Notes, 1921); Chalmers and Castellani, Manual of Tropical Medicine (London, 3rd Edition, 1919); Byam, The Practice of Medicine in the Tropics (London, 1921).

PHARMACOLOGY

PROFESSOR:—R. L. STEHLE.

ASSISTANT PROFESSOR OF THERAPEUTICS:—D. S. LEWIS.

LECTURERS:— S. M. ROSENTHAL. WESLEY BOURNE.

LECTURER IN IMMUNOLOGY:—FRASER B. GURD.

LECTURERS IN PHYSIO-THERAPY:— NORMAN BROWN. F. W. HARVEY.

LECTURER IN THERAPEUTICS:—D. GRANT CAMPBELL.

DEMONSTRATOR:—C. C. STEWART.

Third Year

Instruction will include a laboratory course correlated with systematic lectures, demonstrations and conferences. The action of drugs and poisons upon normal and abnormal organisms is considered. The course

includes: general principles (absorption, excretion, mode of action, tolerance, hypersensitivity, synergism, antagonism and relation of chemical structure to action); etiotropic action (antiseptics and specific chemotherapy); organotropic action (effects of drugs upon nervous, digestive, circulatory systems, etc., individual organs and internal metabolic processes). In addition the chemistry of drugs is considered in detail and a brief survey of pharmacy is included.

Fourth Year

Therapeutics:—A systematic lecture course is given on the principles of therapeutics and the applications of drugs in internal medicine, surgery, gynæcology and the specialties. Drs. Lewis and Bourne.

Fifth Year

Clinical Therapeutics:—In co-operation with the Department of Medicine. Ward classes and clinics in the Royal Victoria Hospital and Montreal General Hospital. Dr. Lewis and Dr. D. Grant Campbell.

Physio-Therapy:—Practical instruction by Dr. Harvey and by Dr. Norman Brown in the out-patient departments of the Montreal General and the Royal Victoria Hospitals.

Research

The department is located on the fifth floor of the new Biological Building and is especially equipped for investigation. Suitably prepared persons may undertake research at any time throughout the year.

Text-books:—Cushny, Sollmann, Dixon, Clark, Poulsson.

Advanced courses leading to the degrees of B.Sc. (Med.), M.Sc., or Ph.D. are arranged to suit individual cases. See Announcement of Faculty of Graduate Studies.

HYGIENE

STRATHCONA PROFESSOR:—T. A. STARKEY.

ASSISTANT PROFESSORS:— { R. ST. J. MACDONALD. F. B. JONES.

The instruction in hygiene given to the medical undergraduates has been carefully designed to meet the requirements of the practitioner in medicine. It relates chiefly to the investigation of the causes of disease, the channels of transmission and the adoption of modern preventive measures—all problems which are likely to confront the medical man daily in the prosecution of his duties.

In order that the importance and usefulness of Public Health and Preventive Medicine may be understood, an introductory course of an elementary character will be given in the First Year. In addition to some theoretical lectures and demonstrations, the student will be brought into direct contact with health activities in the community.

Industrial Hygiene deals with the study of occupational diseases; insanitary conditions in factories, workshops and other industrial establishments, and any other environment connected with the work which may be likely to undermine the health of the workpeople; work and fatigue; general measures designed to preserve the health of the workmen, and to keep them fit and efficient, both inside and outside the works.

School hygiene forms another part of this course—bringing out the chief points connected with the scope of work and nature of duties of the School Medical Officer, a post so frequently undertaken nowadays by the general practitioner.

Numerous visits of inspection are made by the class to various places and establishments, chosen to illustrate the general principles of sanitation:—Housing and industrial establishments; schools, water and sewage works; refuse destruction; places dealing with food supplies, especially meats and milk; and welfare centres.

The Museum is completely equipped and contains full-sized working models and apparatus illustrative of the application of all hygiene principles.

An optional practical course more advanced than the one above referred to is open to students wishing to go into greater detail.

The laboratory is provided with all apparatus needed in every branch of public health work. Advanced students are furnished with separate quarters and with every facility for the prosecution of research work.

Text-books:—Parkes and Kenwood; Notter and Firth; Harrington and Richardson; Roseneau, Park.

See pages 326 and 327 for advanced and special courses, and qualifications in Hygiene: suitable for Medical Officers of Health, and others engaged in any branch of Public Health Work.

PARASITOLOGY

During the session 1925-26, temporary arrangements will be made under the combined Chairs of Hygiene, Pathology and Clinical Medicine for a course of lectures and demonstrations in Parasitology, to deal with the more important features of this special line of work.

Demonstrations of special methods used in the study of animal parasites will be given in the Laboratories from time to time.

MEDICAL JURISPRUDENCE

PROFESSOR:—D. D. MACTAGGART.

In this course the criminal and civil aspects of legal medicine are taken up and fully discussed, also lunacy and its medico-legal aspects. Special attention is devoted to the subject of blood stains, the chemical, microscopic and spectroscopic tests for which are fully described and demonstrated, also the serum test for the detection of human blood. The modes of action of poisons, general evidence of poisoning and classification of poisons are first treated of, after which the more common poisons are described, with reference to symptoms, post-mortem appearance and chemical tests. The post-mortem appearances are fully illustrated by specimens. Injuries are fully discussed, with reference to their significance, under the Workmen's Compensation Act and Accident Insurance.

Text-books:—Glaister; Buchanan; Mann. *Reference:*—Peterson and Haines; Taylor.

MEDICINE

PROFESSOR AND DIRECTOR OF THE DEPARTMENT:—JONATHAN C. MEAKINS.

PROFESSORS:— C. F. MARTIN. CAMPBELL PALMER HOWARD. W. F. HAMILTON.

ASSOCIATE PROFESSOR:—A. H. GORDON.

ASSISTANT PROFESSOR AND ASSISTANT DIRECTOR OF THE UNIVERSITY MEDICAL CLINIC:—E. H. MASON.

ASSISTANT PROFESSOR:—I. M. RABINOWITCH.

LECTURERS:— H. B. CUSHING, J. KAUFMANN, D. S. LEWIS, C. F. MOFFATT, C. A. PETERS, C. F. WYLDE.

DEMONSTRATORS:— C. C. BIRCHARD, C. R. BOURNE, J. G. BROWNE, D. G. CAMPBELL, KEITH GORDON, R. H. M. HARDISTY, A. T. HENDERSON, C. R. JOYCE, A. H. MACCALLUM, A. H. MACCORDICK, J. F. MACIVER, D. W. MCKECHNIE, T. A. MALLOCH, J. L. D. MASON, D. L. MENDEL, LORNE MONTGOMERY, E. V. MURPHY, E. E. ROBBINS, COLIN SUTHERLAND J. J. WALKER, J. C. WICKHAM.

ASSISTANT DEMONSTRATORS:— W. W. ALEXANDER, H. F. EBERTS, W. C. GOWDEY, H. E. MACDERMOT.

The object of this course is to impart a sound knowledge of the principles of general medicine in the diagnosis and treatment of disease; to afford a knowledge of the technique and, above all, so to train the student that he will be enabled to cultivate the faculty of critical judgment. The mere instruction, of itself, is regarded as but a part of the course, while the personal contact of students and patients throughout the final years is of prime importance.

The close correlation of physiology, anatomy and bio-chemistry with clinical medicine is emphasized—not only in the pre-clinical years but later in hospital and laboratory—thus affording students a modern scientific medical training.

Unusual facilities are afforded by the establishment of a modern university medical clinic at the Royal Victoria Hospital. In this institution and at the Montreal General Hospital there are extensive labora-

tories for the study of disease in all its phases. Excellent clinical facilities are afforded at both these hospitals as well as by affiliation with other institutions.

Students must have followed up at least ten cases from their inception to a conclusion and be certified therefor.

Third Year

Instruction is given at the College and in Hospital as follows:

1. A short course of lectures on the general principles of medicine, emphasizing the bearing of earlier studies on clinical work.

2. Lecture demonstrations in the theatre on methods of examination of patients.

3. Practical instruction in groups at the bedside and in the out-patient department (2 weekly).

4. Clinical Microscopy.

Fourth Year

Instruction will consist of:—

1. Two didactic lectures weekly throughout the session on special topics of clinical medicine.

2. Five theatre clinics weekly.

3. Ward classes in groups.

4. Attendance in groups in the O.P. Department.

5. Clinico-pathological conferences.

Fifth Year

Hospital year. Each student becomes virtually a member of the externe staff.

He is allotted in turn to various services of the hospital in the capacity of clinical clerk, participating in the keeping of records, the diagnosis and treatment of patients in wards and out-patient departments and in the laboratory duties. He will accompany the physicians in their daily rounds, attend autopsies and report on them to his teachers.

Regular theatre clinics are given only in the major subjects.

With the present limitation of students it becomes possible to give the student a closer familiarity than hitherto with practical scientific medicine and its allied subjects of neurology, psychiatry and pediatrics.

PEDIATRICS

CLINICAL PROFESSOR:—H. B. CUSHING.

LECTURERS:—
- A. B. CHANDLER.
- F. M. FRY.
- L. LINDSAY.
- S. GRAHAM ROSS.
- R. R. STRUTHERS.

DEMONSTRATORS:—
- W. E. ENRIGHT.
- A. GOLDBLOOM.
- H. P. WRIGHT.
- C. F. WYLDE.

ASSISTANT DEMONSTRATORS:—
- W. E. WILLIAMS.
- R. C. STEWART.

Instruction is given in all the clinical years. Emphasis is laid on the relation of Pediatrics to Public Health and community problems in medicine.

An introduction to the subject is presented in the Third Year in the form of a series of clinics to groups of students on the physical examination of infants and children, and the variation of physical signs from those found in the adult.

In the Fourth Year, the instruction is given throughout the year, and is designed to cover the principles of pediatrics. The course consists of didactic lectures and theatre clinics in the hospitals, and deals with the peculiarities and development of children, the principles and theory of infant feeding, the general nursing and care of infants and older children, the diseases peculiar to both, and the differences in the manifestation and treatment of ordinary diseases of adults and children.

In the Fifth Year, the course is entirely clinical and practical; a series of clinics at the bedside, in the theatre and in the out-patient department is given to small groups of students. Students are required to study personally and to report cases in the various pediatric clinics, outpatient departments and health centres. Special attention is devoted to practical instruction in infant feeding and the care of the new-born and young infants. In this connection regular ward rounds for groups of students are arranged weekly in the Maternity Hospital.

Text-books:—Holt and Howland; Dennett; Feer; Still; Porter and Carter: Morse and Talbot; Koplik.

NEUROLOGY

CLINICAL PROFESSOR:—C. K. RUSSEL.
LECTURER:—F. H. MACKAY.
DEMONSTRATOR:—N. VINER.

A course on Applied Anatomy of the nervous system is given in the earlier years of study and students of the First and Second Years are introduced wherever possible to neurological patients who illustrate the anatomy and physiology of the nervous system.

In the Third Year a series of demonstrations is given on clinical methods of examining the nervous system, and some of the commoner diseases are studied.

Lectures and clinical demonstrations on neurology are given in the Fourth and Fifth Years of the course in the wards and theatre.

In the Final Year groups of students are taken into the wards and outpatient departments of the General Hospitals. The Psychiatric Clinic at the Royal Victoria Hospital furnishes examples of the various psychoses, the border line cases, and enables the student to become familiar with forms of mental defect, delinquency and allied conditions. The clinic deals, moreover, with patients sent for investigation from the charitable agencies of the city and co-operates with the work of the Canadian National Committee for Mental Hygiene.

A series of demonstrations on neuro-pathology is given in the laboratory.

PSYCHIATRY

CLINICAL PROFESSOR:—C. A. PORTEOUS.
LECTURERS:—W. T. B. MITCHELL. G. MUNDIE.
DEMONSTRATORS:—A. G. MORPHY. H. A. SIMS.

Instruction will be given in the Fourth and Fifth Years.

Fourth Year

A series of Didactic Lectures at the University and Clinical Demonstrations of the commoner psychopathic conditions.

Fifth Year

Clinical instruction in groups:—

1. At the Psychiatric clinic.
2. At the Mental Hospital (Verdun).

In all group instruction the student is taught methods of testing psychopathic cases, and of making detailed diagnoses, while the general and occupational therapy, etc., of such cases is dealt with in detail in the hospital services.

Text-books:—"Outlines of Psychiatry," White; "Clinical Psychiatry," Kraeplin; "Psychiatric Neurological Examination Methods," Wimmes Hoisholt; "Diseases of the Nervous System," Jelliffe and White (1923 Ed.).

PSYCHOLOGY

ASSOCIATE PROFESSOR:—J. W. BRIDGES.

An introductory course in Normal Psychology is given in the First Year, while in the Third Year a course of lectures is given on General and Abnormal Psychology, with special reference to the latter. Discussion will include the psychological principles underlying psychotherapy, relation of abnormal to normal mental life, mental hygiene, mental deficiency, intelligence tests and some reference to the psychology of insanity.

DERMATOLOGY

CLINICAL PROFESSOR:—G. G. CAMPBELL.

LECTURERS:— { W. P. BURNETT. / J. F. BURGESS.

DEMONSTRATOR:—C. R. BOURNE.

The course is entirely clinical, consisting of a weekly theatre clinic, at the Montreal General Hospital, on specially selected cases, and outdoor clinics, weekly, by Drs. G. G. Campbell, at the Montreal General Hospital, and W. P. Burnett, at the Royal Victoria Hospital, throughout the session. Lantern slides are made use of to illustrate the course; also a large series of coloured plates and photographs.

Text-books:—Stellwagon, Walker's Introduction to Dermatology, Hartzell, McLeod, Darier, Campbell, Shamberg, Sutton.

PARASITOLOGY

During the session 1925-26, temporary arrangements will be made under the combined Chairs of Hygiene, Pathology and Clinical Medicine for a course of lectures and demonstrations in Parasitology, to deal with the more important features of this special line of work.

Demonstrations of special methods used in the study of the animal parasites will be given in the Laboratories from time to time.

HISTORY OF MEDICINE

PROFESSOR:—SIR ANDREW MACPHAIL.

A course of fifteen lectures will be given upon the History of Medicine to inform undergraduates in the Faculty upon the progress of the science. It is the intention to examine the causes which produced the varying conceptions of medicine in times past, rather than burden the student with a narration of facts and a recital of biographies.

SURGERY

PROFESSOR AND DIRECTOR OF THE DEPARTMENT:—
E. W. ARCHIBALD.

PROFESSOR:—A. T. BAZIN.

ASSOCIATE PROFESSOR:—E. M. EBERTS.

ASSISTANT PROFESSORS:—W. L. BARLOW, C. B. KEENAN.

LECTURERS:—F. B. GURD, C. K. P. HENRY, F. E. MCKENTY, F. A. C. SCRIMGER, F. J. TEES.

LECTURERS IN ANÆSTHESIA:—W. G. HEPBURN, W. B. HOWELL.

DEMONSTRATORS:—GUY JOHNSON, L. H. MCKIM.

DEMONSTRATOR IN ANÆSTHESIA:—J. W. ARMSTRONG.

ASSISTANT DEMONSTRATORS:—G. A. FLEET, R. B. MALCOLM, ALBERT ROSS, A. STEWART.

To obtain greater uniformity and a better perspective, the department of Surgery and Clinical Surgery has been placed under one head, who has been given control of the teaching in the wards and out-patient departments of the two large hospitals.

Montreal, situated at the head of ocean navigation, and itself a large railroad and industrial centre, is noted for the large amount and varied character of its clinical material. Indeed, the teaching in surgery is largely clinical and practical. In the Montreal General and Royal Victoria Hospitals there are between five and six hundred beds and also large out-patient departments.

Third Year

During the Third Year, students are instructed in the out-patient department. They are brought in immediate contact with the patient, and taught how to make an examination, how to get a correct history, how to differentiate the abnormal from the normal, how to apply their

anatomy, to dress wounds, arrange and apply splints, and to reduce the simpler fractures and dislocations. This is a valuable training, as the conditions met in an out-patient department are similar to those that form a considerable part of a practitioner's work.

In this year a course of fifteen lectures on the general principles of surgery will be given.

Fourth Year

In the Fourth Year, students attend surgical clinics in the amphitheatre of the hospitals two days in the week. They also attend in the wards of the hospitals in groups. Cases are assigned to them and they are required to examine them carefully, record the conditions found, arrive at a tentative diagnosis, and outline the treatment indicated. A teacher of mature experience and of professorial rank teaches them in the wards and instructs them in groups. During this year a series of thirty didactic lectures will be given upon the main types of disease and injury.

Fifth Year

The Fifth is the purely hospital year. There are two amphitheatre clinics in the hospitals, weekly. Group teaching is carried out in the wards. The patients are assigned to the students in rotation and they are expected to make very careful and thorough examinations in the wards, do their own laboratory work under the direction of a supervisor and to study the natural history, prognosis and methods of treatment.

They are to be present when their cases are operated on and to prepare themselves with all the care and detail of the operating surgeon. Opportunities of assisting are afforded, and also of seeing closely the conditions that are found.

Students in this year are required to do a good deal of collateral reading and to make themselves familiar with the anatomy, pathology and physiology of the injury or disease and of the region implicated.

Every encouragement is given to originality and independence of opinion.

Didactic lectures and laboratory demonstrations on anæsthesia are given in the College by the Department of Pharmacology and Therapeutics, and practical instruction in the administration of anæsthetics is given in the hospital to students of the Third and Fourth Years.

Text-books:—Operative Surgery—Binnie and Burghard; *Surgery*—A System of Surgery, C. C. Choyce; Rose and Carless; Thomson and Miles; Keen's Surgery; Russell Howard; Ashurst; Da Costa; *Emergency, Surgery*—Sluss; *Surgical Anatomy*—Treves and Keith; Davis' Applied Anatomy; Gask and Williams' Text-book of Surgery; Fitzwilliam's Pocket Surgery; The Treatment of Fracture, Scudder.

UROLOGY

CLINICAL PROFESSORS:— { D. W. MACKENZIE. / F. S. PATCH.

LECTURER:—R. E. POWELL.

DEMONSTRATOR:—M. SENG.

Students attend this department in the Royal Victoria and Montreal General Hospitals for instruction in the methods of diagnosis and treatment of surgical diseases of the urinary and male genital organs and syphilis.

During the Fifth Year they are given a course of fifteen lectures on the elements of the subject in the University, followed by fifteen clinics demonstrating typical cases in the Hospitals.

During the Final Year they receive clinical instruction on groups of cases presented for differential diagnosis, and students are required to discuss these cases and outline the treatment indicated.

Clinical clerkships are assigned in the urological wards, where cases are followed to a conclusion. Opportunity is here afforded for the complete study of a considerable number of cases.

Text-Book:—Keyes' Urology.

Collateral Reading:—Thompson Walker's Genito-Urinary Surgery; White and Martin's Genito-Urinary Surgery and Venereal Diseases.

ORTHOPÆDIC SURGERY

CLINICAL PROFESSORS:— { A. MACKENZIE FORBES. / W. G. TURNER.

LECTURER:—J. A. NUTTER.

DEMONSTRATOR:—W. J. PATTERSON.

Instruction in diseases and injuries of the bones, joints, muscles and the surgery of deformities, both congenital and acquired, is given to the students of the Fifth Year in groups of ten to twelve in the Children's Memorial Hospital, the Royal Victoria and the Montreal General Hospitals.

Each student attends clinics in Orthopædic Surgery at each of these hospitals for four or five consecutive weeks.

The demonstrations given are essentially practical. Every student is expected to write histories of, to make the diagnoses in, and to prescribe the treatment for a definite number of patients.

In the Montreal General and the Royal Victoria Hospitals there are large clinics for both adults and children suffering from orthopædic affections.

In the Children's Memorial Hospital there is a great wealth of clinical material consisting of children who are suffering from the surgical diseases of infancy and childhood.

Text-books:—Whitman's Orthopedic Surgery; Fraser on Tuberculosis of Bones and Joints of Children; Tubby and Jones on Surgery of Paralysis; Jones, Orthopedic Surgery of Injuries; Jones and Lovett, Orthopedic Surgery.

OBSTETRICS AND GYNAECOLOGY

PROFESSOR:—W. W. CHIPMAN.

ASSISTANT PROFESSOR:—H. M. LITTLE.

LECTURERS:—W. A. G. BAULD. H. C. BURGESS. J. W. DUNCAN. J. R. FRASER. J. R. GOODALL. DAVID PATRICK.

DEMONSTRATORS:—G. C. MELHADO. IVAN PATRICK.

Fourth Year

1. A course of about fifty lectures on the fundamental principles of the subject, illustrated by diagrams, models, and fresh and preserved specimens.

Professor Chipman.

OBSTETRICS

Fifth Year

2. Bedside instruction in the Montreal Maternity, including external palpation, pelvimetry, the management and after-treatment of cases.

3. A complete course on obstetric operations with the Tarnier-Budin phantom.

4. A course of individual clinical instruction at the Montreal Maternity Hospital including an interne period.

5. Clinical demonstrations and ward-work on the diseases of the new-born.

Text-books:—Whitridge Williams; Webster; Evans; De Lee; Berry Hart.

GYNÆCOLOGY

6. Theatre Clinics and bed-side instruction in the Royal Victoria and Montreal General Hospitals.

Professor Chipman and Staff.

7. Practical instruction to small groups of students in the out-patient departments of the Royal Victoria and Montreal General Hospitals.

Text-books:—Hart and Barbour; Blair Bell; Dudley Hurst; Gilliam; Anspach.

OPHTHALMOLOGY

PROFESSOR:—W. GORDON M. BYERS.

CLINICAL PROFESSOR:—G. H. MATHEWSON.

LECTURERS:— S. H. McKEE. F. T. TOOKE.

DEMONSTRATORS:— A. G. McAULEY. J. A. MacMILLAN.

ASSISTANT DEMONSTRATORS:— A. BRAMLEY-MOORE. J. ROSENBAUM.

The undergraduate course in ophthalmology is designed to meet the needs of a well-trained general practitioner.

Fourth Year

In the Fourth Year, the class in small groups is drilled in the various tests in the routine examination of the eye, every effort being made to demonstrate methods which, though simple, are adequate and call for the minimum of outlay for equipment. Instruction in the use of the ophthalmoscope, and familiarization with the appearances of the normal fundus of the eye, are a main feature of this preliminary teaching.

Fifth Year

In the Fifth Year, apart from a course of twelve lectures, variously illustrated and covering the place of ophthalmology in medicine, the relation of the eye to other organs, and the general principles of the subject, the entire available time is spent in the ophthalmic wards and clinics of the hospitals. The work here is restricted to an intensive study of the ocular problems that are of greatest moment in general practice—the external diseases of the eye, and the main ophthalmoscopic findings in systemic disorders and affections of the nervous system; with practical lessons on ophthalmic nursing and first aid.

Text-books:—Parsons; May; De Schweinitz; Fuchs.

OTO-LARYNGOLOGY

PROFESSOR:—H. S. BIRKETT.

LECTURER:—H. D. HAMILTON.

DEMONSTRATORS:— J. T. ROGERS. HAMILTON WHITE.

ASSISTANT DEMONSTRATORS:— D. H. BALLON. G. E. HODGE.

The course of instruction in Oto-Laryngology is carried on in the recently constructed wards and out-patient departments of both the Montreal General and the Royal Victoria Hospital, where owing to the large clinics the students are afforded ample opportunity of receiving practical instruction in these subjects. Between these two hospitals there are about fifty beds set apart for this specialty.

The courses are conducted in small classes, so that personal supervision, which is so essential in this specialty, is accorded to each student.

The clinics are held twice a week in each hospital and continue throughout the session.

The courses are based altogether upon the needs of such knowledge as a general practitioner should have regarding these special organs.

Fourth Year

In the Fourth Year the students receive instruction in:—(a) The normal anatomy of the ear, nose and throat, as exemplified in moist dissections, dried specimens, models, stereoscopic plates and radiograms of normal conditions of the accessory sinuses of the nose and mastoid process; (b) the method of using the various instruments for examining the ear, nose and throat; (c) the usual tests for hearing; (d) the recognition of normal conditions of these special organs, as exemplified by clinical material.

Fifth Year

In the Fifth Year the students have presented to them only pathological conditions affecting these organs. As many cases as is possible are brought forward to illustrate the various diseases, and the clinical material thus presented is dealt with by a clinical lecture, and is further enlarged by gross pathological specimens, microscopical material and lantern slides.

From eight to ten didactic lectures are given only upon the more common conditions met with in these organs in general practice.

At the end of the course in the Fifth Year an examination is held, which is written and clinical.

Two positions as Resident House-Surgeons in the Department of Oto-Laryngology in both hospitals are open to the members of the graduating class.

Text-books:—Chevalier Jackson and Coates; Albert Gray; St. Clair Thomson; A. Logan Turner; H. Tilley; Kerrison; Phillips; Gleason.

GRADUATE INSTRUCTION

1. Any graduate who so desires may attend any of the regular courses given to students of the final year. This opportunity frequently appeals to many of our graduates, who find in this plan a means of bringing their knowledge of medicine up to date.

2. Special graduate work is offered in every department, both in the laboratories and in the clinics, at any period during the year, provided the graduate is willing to assign himself for serious work to one service. Application for this privilege should be made to the Dean or to the head of the Department in which the graduate desires to occupy himself.

Vide under heading of "Departments of Physiology, Pathology, Anatomy, Hygiene, etc."

3. Post-graduate Courses: Special short courses lasting for four weeks during the spring, will be arranged. (Special Announcement later.)

Instruction will include the following subjects:—

Medicine:—

(1) General; (2) Disease of the Circulatory System.
(3) Metabolism; (4) Neurology.
(5) Tuberculosis.
(6) Pediatrics and Infectious Diseases.
(7) Clinical Laboratory Methods.
(8) Clinical Therapeutics.

Surgery:—

(1) General; (2) Orthopædic.
(3) Genito-urinary Diseases.

Gynæcology and Obstetrics.

Specialties:—

(1) Ophthalmology; (2) Oto-Laryngology.
(3) Radiology.
(4) Applied Anatomy.

4. Course for Diploma of Public Health: This course is specially designed as a thorough training for medical men undertaking the duties of a Medical Officer of Health.

Every M.O.H. should possess this qualification.

Candidates must have graduated in Medicine, or must have had other qualifications to practise at least twelve months before they are allowed to receive the diploma.

The duration of the course is at least eight months (October 1st to May 31st).

The curriculum is as follows:—

(a) A course of lectures dealing in a comprehensive manner with the general principles of Hygiene, Preventive Medicine and Sanitation.

(b) Bacteriology—a full practical course in general bacteriology, with special application to Public Health.

(c) (1) *Sanitary Chemistry.* Examination of air, water and water supplies in general, the commoner foods and beverages, sewage and sewage effluents, articles of dress, house decorations, etc.; chemical investigations connected with trades and occupations; (2) *Physics.* General principles only in their application to Hygiene.

(d) Practical Out-door Sanitary Work. An extended course under a M.O.H., affording facilities for instruction in sanitation relating to housing, factories, work-shops and industrial establishments, schools, waterworks, sewage plants, refuse distribution, abattoirs, dairies and milk stations, welfare centres, etc., etc.

(e) Sanitary legislation and administration. Statutes and by-laws relating to Public Health and the powers of sanitary authorities; administration of the office of a Medical Officer of Health.

(f) Vital statistics; calculations and tabulations of returns of births, marriages and deaths and diseases.

(g) Meteorology and climatology; geographical and topographical distribution of disease.

Candidates for this diploma may claim exemption in any of the above subjects on presentation of adequate certificates.

Qualification for the diploma includes a knowledge of infectious diseases, of child hygiene and psychopathic diseases, the use of meteorological, hygienic and sanitary apparatus.

The successful candidate must further know the appearance of healthy and diseased tissues of animals, and their microscopic examination.

Finally, he must show a capacity to formulate a report on sanitary conditions in an actual locality and make annual and other reports as required by Officers of Health.

These examinations are written, oral and practical.

The fee for the course, including the diploma, is $100.00.

5. Course for Medical Inspectors of Schools: The course is designed to acquaint the Medical Officer of Health with the conditions relating to the school child. The normal child is studied in all phases, his physical and mental fitness to undergo school training, his progress and development in the school. The hygienic conditions and surroundings are studied and all such features as may retard development.

Special instruction, therefore, is given to enable the medical officers to obtain not only a knowledge of the hygiene of the school child but also to detect the earliest signs of defect or disease.

The following subjects are dealt with as specially applied to this object in view:—

General medicine relating to school life—feeding, nutrition, mental deficiencies, communicable diseases, dermatology, etc.; orthopædics in its relation to the school child; oto-laryngology and ophthalmology; regional anatomy; hygiene and sanitation; administration and the relation of the school medical officer to Public Health authorities.

Visits are paid to various schools for personal observation of the technique of these inspections.

6. Graduates desiring special instruction in Industrial Hygiene or School Hygiene may apply to the Head of the Department of Hygiene.

HOSPITALS

The Medical School is closely affiliated with a group of active general and special hospitals, the staffs of which are appointed with the co-operation of McGill University and, for the most part, are teachers in the Medical School. These affiliated hospitals contain over 1,073 beds.

The Royal Victoria Hospital, in juxtaposition to the University buildings, is a general hospital for acute diseases and contains 380 public beds. During 1924, it cared for 9,070 cases, while in its Outdoor Department, 56,309 cases were treated. Many new additions have been made to the Hospital. A modern University Medical Clinic has just been established, and a new Pavilion to accommodate 200 beds for obstetrical and gynæcological cases is in course of construction.

There were 265 post-mortems during 1924.

The number of resident physicians is 34.

The Montreal General Hospital is a general hospital for the treatment of acute diseases and contains 300 public beds. In 1924 there were 6,125 admissions to its wards. The large, reconstructed out-

patient department, probably the finest in this country, treated last year 167,000 patients. Many modern additions to the original buildings have been made. During the last year, a large biochemical laboratory has been finished and completely equipped.

There were 257 post-mortems during the year.

The number of resident physicians is 35.

The Dental Clinic of the University, completed in 1921, has 50 dental chairs, and a hospital dental clinic unequalled anywhere.

The Western Division of the Montreal General Hospital—The Western General Hospital. A hospital for the treatment of acute diseases, with 62 public beds. It is hoped that this hospital will soon afford additional opportunities for teaching. The post-mortem and surgical material is now being used for teaching. The number of resident physicians is 7.

The Montreal Maternity Hospital, with 31 teaching beds, admitted last year, 1,517 patients, with a total of 1,797 confinements. The organized out-patient service is also of the greatest benefit to the undergraduate students.

There are 5 resident physicians.

The Children's Memorial Hospital has 130 public beds, and, in 1924, admitted 1,329 patients. The attendance at its out-door department totalled 13,072 patients. This hospital, while primarily for orthopædic cases, now admits all varieties of cases, and enables the student to get a broad conception of pediatrics. Of special interest are the Departments of Remedial Gymnastics, the Open-air Pavilion, and the well-equipped Out-patient service.

A summer course, lasting four weeks, has for several years enabled students and practitioners to become acquainted with many of the most important phases of modern pediatrics.

The Montreal Foundling and Baby Hospital, adjacent to the Maternity Hospital, affords a large amount of clinical material for students, and gives special facilities for the consideration of infant feeding. There are 75 beds. In connection with this institution, there is a largely-attended Baby Welfare Clinic for mothers seeking advice as to the care of the normal child, and of themselves.

The Alexandra Hospital for Infectious Diseases, opened in 1906, with modern wards, cubicles and equipment, is regularly attended by students, who receive demonstrations on the essential features of the exanthemata.

There are 170 beds, and, in 1924, 1,512 patients were admitted to the hospital. There were 24 autopsies.

The Protestant Hospital for the Insane at Verdun has 630 beds. It serves to instruct students in the diagnosis and treatment of the psychoses. Students are taken about the wards in groups, and are required to report on cases and discuss the general problems of Psychiatry with the teachers. Occupational therapy is emphasized.

The Royal Edward Institute—a dispensary for Tuberculosis—offers adequate material for teaching students, in groups, the essential features of pulmonary disease.

The Royal Victoria Hospital is adjacent to the Medical School, while the other affiliated hospitals are within easy access. These hospitals, with their large clinical and laboratory facilities, and their close affiliation with the University, offer excellent opportunities for the study of disease in all its phases.

LIBRARY

HONORARY LIBRARIAN:—C. F. WYLDE.

ASSISTANT LIBRARIAN:—MISS JEAN CAMERON.

ASSISTANTS:—MISS PAULINE M. CARRIÈRE.
MISS C. DAVIDSON, B.A.
MISS PATRICIA BURNS.
MISS EDITH GORDON.

"The history of the Library is the history of the Faculty."
Professor Hall.

The Library occupies the central part of the Medical Building, the whole front of the second and third floors, as well as a portion of the first floor. On the third floor is the magnificent reading room, 76 x 24 feet, exceptionally well lighted, and capable of accommodating 75 readers. On this floor also are the journal room and private offices. The second floor contains the stack room, the book stacks at present containing about 38,000 volumes and having a total capacity of sixty thousand volumes.

A special feature of the Library is the journal collection, and every effort is being made to complete this section as far as possible and thus to increase the value of the reference department of the Library. There is also a great duplicate collection of journals from which distribution can be made on the exchange basis.

There is no printed catalogue, but there has been compiled a comprehensive list of continuations with their inclusive volumes, and this list will be available for out-of-town borrowers.

The Library is for the use of the members of the Teaching Staff, graduates of the Medical Faculty of the University, undergraduate students in the Faculty, graduates from other colleges showing proper credentials, and registered nurses. It is felt that graduates living at a distance are not aware of the fact that books may be borrowed from the Library on payment of carriage both ways.

The Library is closed on Sundays, but is otherwise open daily during term from 9.00 a.m. to 6.00 p.m., except Saturday, when it closes at 5.00 p.m. After June 1st it is open from 9.00 a.m. to 5 p.m., Saturdays, 9.00 a.m. to 1.00 p.m. During July and August it is closed on Saturday.

MEDICAL SOCIETIES

1. THE McGILL MEDICAL SOCIETY

The Society is composed of the registered students of the Faculty. Its purpose is:—

(1) To transact all matters of business connected with the undergraduate body.

(2) To stimulate interest along medical lines.

(3) To assist students to express themselves in public with facility.

(4) To provide an enjoyable social evening, at the same time developing a strong spirit of faculty loyalty.

Meetings are held every alternate Monday at which addresses are given by prominent professional men, medical and otherwise. Case reports are also read and discussed by the members themselves.

The annual meeting is the last meeting in the spring, when the following officers are installed: Hon. President (elected from the Faculty), President, Vice-President, Secretary, Assistant Secretary, Treasurer, Reporter and three Councilmen (of whom two are chosen from the Faculty). These officers are elected by ballot one week before the annual meeting.

A prize competition has been established in the senior and junior subjects. The senior are open to all to write upon, while only students of the first three years are allowed to compete in junior subjects. The papers are examined by a board selected by the Faculty, and two prizes are awarded in each division. The papers are subject to the call of the Executive on December 1st, and must be handed in for examination before February 1st. The Society also controls the Students' Reading Room. English and American journals as well as the leading daily newspapers are kept on file.

2. ALPHA OMEGA ALPHA HONORARY MEDICAL SOCIETY

This Society, which has Chapters in the various Medical Colleges of Canada and the United States, established a subsidiary branch at McGill University in 1912.

There are honorary and undergraduate members. Honorary members are selected from such teachers as are more particularly interested in the advancement of scientific medicine. Undergraduate members are selected from those students who, during their earlier academic career, have shown promise of development and have attained honour rank. They are eligible for election in the senior year.

Meetings are held every month throughout the session, and papers are read by honorary and active members, as well as by graduates. Once during the year an open meeting is addressed by a visitor who is prominent in the medical world.

DEPARTMENT OF PHARMACY

GENERAL ANNOUNCEMENT

The Montreal College of Pharmacy, organized as a teaching body in 1867, for fifty years successfully carried on the work of instructing pharmaceutical students, and for many years it was the only institution in the Province of Quebec offering such instruction.

During the summer of 1916 this College was taken over by McGill University, and a Department of Pharmacy was established in connection with the Faculty of Medicine.

Special instruction on all subjects required by the future Pharmaceutical Chemist is given in the class rooms and laboratories of the University, the students of Pharmacy having access to its splendid equipment.

The work of the Department embraces courses in Botany, Physics, Chemistry and Practical Chemistry, Theoretical and Practical Pharmacy, Dispensing, Materia Medica and Toxicology.

The eighth session of this Department will be opened on Monday, September 21st, 1925.

Students registering this session will take notice that the course in Pharmacy now covers a period of three years, the work being distributed as follows:—

First Year

Physics, Junior Chemistry and Junior Practical Pharmacy.

Second Year

Materia Medica, Junior Theoretical Pharmacy, Senior Chemistry and Botany.

Third Year

Materia Medica and Therapeutics, Analytical Chemistry and Senior Practical Pharmacy.

ENTRANCE REQUIREMENTS

For entrance into the Department of Pharmacy the University accepts the preliminary examination of the Pharmaceutical Association of the Province of Quebec in default of the B.A. degree or Arts matriculation (B.A. Course), particulars of which will be found in the General Announcement.

The regulations regarding the Preliminary Examination of the Pharmaceutical Association of the Province of Quebec are as follows:

A diploma of Bachelor of Arts, Science or Letters from a Canadian or British University, is accepted in lieu of the preliminary examination. In this case the candidate must register his application with the Secretary of the Association, and produce his diploma, together with personal proof of his identity.

The candidate for the study of Pharmacy must give satisfactory certificates of good morals, as well as identification and a recent photograph duly attested. He must be a British subject of the male sex and not less than seventeen years of age. He is also required to pay the fee in advance.

The examination which the candidate is required to undergo embraces the following subjects:

GROUP I. LETTERS:—

1. Mother tongue (English or French), dictation, grammar, syntax, analysis, composition. English candidates will also be required to have a critical knowledge of Shakespeare's "Macbeth".

LITERATURE:—The study of the principles of *Belles Lettres* and *Rhetoric;* notions of the different classes of Literature; a knowledge of the principal authors who have especially exemplified these different classes in Greek, Roman, French, and English Literature.

2. Auxiliary language (English or French), translation in both languages. Books recommended "Telemaque" and "The Vicar of Wakefield" by Oliver Goldsmith. Grammar and syntax (French for English candidates and English for French candidates).

3. Latin—Virgil, book VI. Cicero "Pro Milone." A *sound* knowledge of grammar, and syntax as exemplified in the texts chosen.

4. History—French, English, and United States.

5. Geography—Notions on Universal geography—A special knowledge of the geography of France, England and North America.

GROUP II.—SCIENCES:—

1. Arithmetic:

(a) Ordinary and decimal fractions, single and compound proportion, interest, percentage and square root; problems.

(b) Units of measure in use in Canada—"Linear, surface and volume"; metric system.

(c) Mensuration:—Computation of areas and volumes of simple geometrical figures; problems.

2. Algebra:—Fractions and equations of the first degree of one or more unknown.

Geometry:—The first four books of Euclid; proofs.

3. Physics and Chemistry:

Physics: Elementary notion on mechanics, weight, hydrostatics, pneumatics, capillarity, osmosis, optics and heat.

Chemistry:—General knowledge, definitions, the elements, principal laws of chemical reactions, properties of the principal metalloids and their compounds.

For admission the candidate must obtain at least the following percentage in the different subjects:—

Mother tongue and arithmetic, 60 per cent.; other subjects, 50 per cent.; and on the total, 60 per cent.

The candidate who fails in one subject only, of the above groups, either of letters or of sciences, may present himself for examination in that subject at any one of the four subsequent examinations.

The candidate may try for science or letters at different examinations, separately, or for both of these two groups at the one examination. Clear and legible writing is required.

Fee, $20.00, or $10.00 for each group.

The preliminary examinations for admission are held in Montreal and Quebec, the first Thursday of January and July of each year.

The registration of candidates for the examinations must be made at the office of the Registrar of the Association at least ten days before the date set for the examinations. A blank register form can be obtained from the Registrar, and must be signed by the candidate.

The major and minor examinations are held at Montreal in April, and at Quebec in the Autumn.

REGISTRATION

Students in Pharmacy are required to register at the office of the University Registrar between September 14th and September 19th, both days inclusive. Students entering on or after Monday, September 21st will not be allowed to register until they have paid a late registration fee of $5.00 during the first week of the session, and of $10.00 during the second. This will not be refunded except for satisfactory reasons and by special authorization of the Faculty.

EXAMINATIONS

Examinations in each subject are held at the close of the course. Students who pass in all subjects of the curriculum, as required by the Pharmaceutical Association of the Province of Quebec, will receive the University Diploma of Pharmacy. A minimum of 50 per cent. in each subject is required to pass, and 75 per cent. for honors. The examination requirements of the Pharmaceutical Association of the Province of Quebec for license to practise Pharmacy in the Province are stated on page 238.

TEXT BOOKS RECOMMENDED

PHARMACY AND PRESCRIPTIONS:—Remington's Pharmacy, Bennett's Medical and Pharmaceutical Latin, Scoville's Art of Compounding, Art of Dispensing, Lucas' Practical Pharmacy.

CHEMISTRY:—Junior and Senior Chemistry.

Reference Book:—Sadtler and Coblentz, Pharmaceutical and Medical Chemistry.

PHYSICS:—Balfour Stewart's Elementary Physics, Ganot's Physics, Peck's Ganot's Physics.

BOTANY:—Gray-Robinson Manual, Kraemer's Applied and Economic Botany.

MATERIA MEDICA:—British Pharmacopœia, United States Dispensatory, Squire's Companion to the British Pharmacopœia, Royal's Materia Medica, Sayre's Organic Materia Medica and Pharmacognosy, Heebner's Synopsis.

COURSES OF LECTURES

CHEMISTRY

Two courses will be required for the Diploma in Pharmacy, namely the junior and senior.

Junior Chemistry.—This includes elementary physical science and a university course on the general principles of the science of chemistry. A course in elementary physics will be taken with the students in the School of Commerce and will consist of a series of twenty-five lectures on the principles of physics and their application. The course is non-technical and is intended as an introduction and supplementary to the course in general chemistry. The course in general chemistry will consist of three lectures per week, given for the students in Arts and Medicine, on Monday, Tuesday and Thursday, at two o'clock. In addition to these lectures, there will be two laboratory periods each week of two hours, immediately following the lectures on Monday and Thursday. This course in general chemistry is intended to give a thorough grounding in the fundamental principles governing chemical action and the formation of chemical compounds, organic as well as inorganic.

Senior Chemistry.—The senior course in chemistry will be a short course of laboratory work on the identification and separation of organic and inorganic compounds of special importance in Pharmacy, and will include elementary toxicology, the assay of crude drugs, volumetric analysis, analysis of urine, the use of spectroscope, etc.

Both courses of chemistry will be given by Dr. Ruttan and members of the staff of the Department of Chemistry.

PRACTICAL PHARMACY

Junior.—This course will embrace (1) the preparation of a number of typical examples drawn from the official dilute acids, waters, liquors, plasters, extracts, fluid extracts, mixtures, liniments, oleates, syrups, ointments, etc. (2) General principles to be observed simple and compound powders, mixtures, emulsions, their nature and preparation; pills and pill coating, gargles, lotions, liniments, suppositories, plasters, ointments, cachets, capsules, tablets and tablet triturates, lozenges and pastilles, lamellae, incompatibility, Pharmacy law.

Senior.—Practical Pharmacy in all its branches will be thoroughly dealt with. The course will include the following subjects:—Clarification, crystallization, decantation, dialysis, distillation, drug grinding, extraction, filtration, heat, metrology, percolation, precipitation, solution, specific gravity, specific volume and vaporization.

In conjunction with the foregoing, the class will practise the modus operandi for the manufacture of different preparations of the B. P., and others, including chemical solutions, elixirs, spirits, plasters, emulsions, ointments, granular effervescent salts, crystal and scale salts of iron, resins, oleo resins, etc.

Particular attention will be given to pharmaceutical assaying, such as opium, ipecac, belladonna, cinchona, nux vomica.

MATERIA MEDICA AND THEORETICAL PHARMACY

Junior.—This will include instruction in pharmaceutical jurisprudence, poison schedules, weights and measures; classification of the official organic drugs, including leaves, flowers, fruits, seeds, herbs, barks, gums, resins, etc., with the geographical source, parts used, and official preparation of each; posology; theoretical pharmacy (embracing the theories of manufacture of the simple preparations of the B. P., such as medicated waters, syrups, tinctures, compounds, powders, pill masses, etc.); dispensing.

Senior.—Complete classification of all official organic and inorganic drugs, giving, in the former, the mode of collection and preservation, geographical and botanical sources and parts used—and in both instances the constituents and impurities, also the medicinal properties of each, with their preparations; animal drugs, such as pepsin, pancreatin, thyroids, etc., will be dealt with in a similar manner; posology; pharmacognosy; toxicology; theoretical pharmacy (embracing the theories of manufacture of the more complex galenical official preparations); adulterants, impurities and the methods of detection.

BOTANY

General Botany.—General external morphology of the higher plants (higher cryptogams and phanerogams); anatomy and histology, the latter treated with more especial reference to methods of drug identification by means of the microscope.

General Physiology.—Elementary plant physiology, treated briefly.

Special Botany.—Structure of those plants below the pteridophytes of use or interest to the pharmacist, treated briefly; special morphology of pteridophytes and phanerogams, and their classification. Attention will more especially be given to those families (about 30) of plants chiefly represented in materia medica.

EXAMINATIONS FOR ADMISSION TO THE PRACTICE OF PHARMACY

(1) EXAMINATION TO OBTAIN THE CERTIFICATE FOR ASSISTANT PHARMACIST

To become an Assistant in Pharmacy the candidate must furnish proofs of having registered three years as a student in Pharmacy, also that he has served at least three years under a doctor or druggist duly registered; he must pay the fee required, and pass an examination on the medico-pharmacal sciences, Physics, Chemistry and Pharmacy. (Art. 4997, Law of Pharmacy.)

The candidate must be able to read prescriptions in script, translate them into English and French, write fully and legibly all the abbreviated words, point out the doses which are unusual, prepare, label and address properly the prescription, under the scrutiny of the examiner.

The candidate must recognize the Galenic preparations of the B. P., such as extracts, tinctures, powders, etc.; describe the composition of the compound preparations, giving the proportions of their active ingredients, the mode of preparation, and the doses. He must be able to describe properly in the presence of the examiner the different official Galenic preparations.

He must recognize samples of roots, barks, leaves, fruits, etc., employed in medicine, and name the official preparations into which they are incorporated; have a knowledge of the laws of physics and chemical combinations, of the nature and properties of the elements and their compounds, and recognize the acids, oxides, salts and other chemical bodies, described in the B. P., and also give their doses.

(2) FINAL EXAMINATION FOR LICENTIATE IN PHARMACY

The Final Examination to be passed by the candidate includes all the subjects required for the Assistant in Pharmacy Examinations, but a more thorough knowledge of these sciences is required, also practical analytical Chemistry and Botany.

The candidate will have to describe the methods of obtaining acids, oxides, salts and other chemical compounds described in the B. P., explain the decompositions which take place when they are made, by means of written equations and diagrams, and also possess a good knowledge of the new synthetic products.

He must recognize the more important medicinal plants; know the therapeutics and posology of B. P. preparations, also the non-official plants which are used commonly, know the physiology and anatomy of plants, the shape, structure and characteristics of the roots, barks, leaves, flowers, fruits, etc.; their physiological functions and their natural order.

He will be required to know the best antidotes for urgent cases of poisoning by the ordinary toxics, and must pass in a satisfactory manner the test on practical pharmacy, analytical chemistry, volumetric, and urine analysis.

He must also show that he is registered as an Assistant Pharmacist, and give proofs of having duly served four years under a doctor or druggist duly registered; that he has followed for two years the Medico-Pharmacal classes, two years of Physics and Chemistry classes, one year's course in Botany and other natural sciences, according to the programme established in institutions incorporated and authorized by the Council of the Association; pass the examinations on the above subjects, and pay the fee. (Art. 4997, Law of Pharmacy.)

However, the student in Pharmacy or the certified clerk may, if he so desires, give up a whole twelve months exclusively to the study of Pharmacy. (Art. 4997.)

The Board of the Pharmaceutical Association will accept only one course in any subject in the same year; classes attended during the same scholastic year in different schools will count for one course. Private or academy classes will not be accepted.

At the Junior and Final Examinations, students must obtain 40 per cent. of points on each subject, at the written examinaions, and 50 per cent. on the total number of points, to be admitted to the oral examinations; but the student who passes satisfactorily the written examination is not obliged to begin it over again if he fails in the subsequent oral examination. At the oral examination, they must obtain at least 40 per cent. on each subject, and finally to obtain their license, they must obtain 60 per cent. of the total examinations, oral and written united. Any candidate receiving less than 40 per cent. on any one subject in the written or oral examinations, may apply at the following examination to be examined on this one subject. A candidate who fails to obtain the necessary 40 per cent. in two or more subjects must take all subjects of the examination over again. Any candidate who does not apply at the next examination following to take the subject in which he has failed, or who tries and fails again, will have to take the whole examination, either written or oral, as the case may be.

No certificate of examination will be accepted from any Pharmaceutical Association or College, unless it has been granted after a service of four years in a drug store and following a course of studies which in the opinion of the Board of the Association is equivalent to that required by the articles 4997-4998 of the Law of Pharmacy of the Province of Quebec.

Candidates who apply for the final examination, and who are not twenty-one years old, will be admitted to the examination, but if they succeed their license will be retained until they have attained the age of twenty-one.

FEES FOR THE EXAMINATIONS

The fees to be paid by candidates, besides the registration fee, before they are admitted to the examination, are as follows:—Preliminary examination, $20.00, or $10.00 for each group; Assistant in Pharmacy, $15.00, and Pharmacist, $25.00. These fees must be paid in advance to the Registrar of the Association.

Any person having registered his name for an examination and not attending will lose the fee paid.

In addition to the above, a sum of $40.00 is required for the Diploma of Assistant Pharmacist, and $75.00 for the diploma of Licentiate in Pharmacy.

FACULTY OF LAW

GENERAL INFORMATION

AIM

The aim of the Faculty is to offer the best possible legal education based mainly on the study of the Roman and Civil systems.

ADMISSION

Students who have successfully completed two years in the Faculty of Arts at McGill University will be admitted to the Faculty of Law without further examination. Other candidates for admission will have to satisfy the Matriculation Board that they have attained an equivalent educational standard and are intellectually qualified to pursue with advantage the study of law.

Students whose right to enter the Third Year of the Arts course is conditional upon their passing supplemental examinations are not eligible for admission to the Faculty of Law.

Women are admitted to the Faculty on the same terms as men, and are eligible for all degrees. As the law stands at present, however, they cannot be admitted to the Bar or to the notarial profession in the Province of Quebec.

FRENCH

The attention of students is directed to the necessity of being able to read French easily as the greater number of the works to which they will be referred are in that language.

PARTIAL STUDENTS

The Faculty may admit a limited number of suitable persons to attend selected courses of lectures without matriculation in the University. Such permission will only be granted to applicants of at least twenty-one years of age who satisfy the Faculty of their capacity to undertake with advantage the study of law. They will not be allowed to proceed to degrees, but will be entitled to receive a certificate specifying the course of study which they have successfully pursued and the class which they have obtained in the examination.

DEGREE

The degree granted in the Faculty is that of Bachelor of Civil Law (B.C.L.). The course covers three years.

No student under the age of 21 years will be eligible for a degree.

The D.C.L. degree is granted under the authority of the Faculty of Graduate Studies and Research. The regulations governing this degree are given in the Announcement of that Faculty.

MOOT COURTS

Under the supervision of the professors moot courts are held from time to time during the session in order to afford students practice in the preparation and presentation of legal arguments. Regular attendance at these courts will receive credit as class-room work.

LIBRARY

The Law Library of the University at present contains over 9,000 volumes, and immediately adjoins the lecture rooms. The principal reports of Canada, the United Kingdom, and France are taken, as well as a selection of reports from the United States and elsewhere.

There is a small lending library, from which students can obtain text-books for the session on payment of an *ad valorem fee.*

Students in the Faculty are permitted to use the Library of the Court House, which contains in addition a large number of the principal American reports, both of the Federal and of the State courts. The general Library of the University is also available for the use of law students.

OFFICE ATTENDANCE

The attention of students is directed to the amendment to the Bar Act passed at the last session of the Quebec Legislature which reduces the period of clerkship to one year for students who have previously obtained a recognized degree in law. They are strongly urged to take advantage of this provision and defer practical office training until after the completion of their University course. The final Bar examination may be taken as soon as the student has been admitted to the study of law and has taken his B.C.L. degree. (For particulars as to Bar requirements see page 349.)

COURSE OF STUDY IN LAW

The Faculty of Law aims at giving a sound practical and scholarly education in the principles of:—

ROMAN LAW.
THE CIVIL LAW OF QUEBEC.
THE COMMON LAW AND STATUTE LAW OF CANADA.
CONSTITUTIONAL AND MUNICIPAL LAW.
PUBLIC AND PRIVATE INTERNATIONAL LAW.
THEORETICAL AND COMPARATIVE JURISPRUDENCE.

The following classification of the lectures will give an outline view of the teaching provided. It is liable to modification from time to time.

FIRST YEAR

ROMAN LAW.
JURISPRUDENCE AND COMPARATIVE LAW.
PROPERTY.
OBLIGATIONS.
PERSONS.
CRIMINAL LAW AND PROCEDURE.
CIVIL PROCEDURE.
LEGAL HISTORY.

SECOND AND THIRD YEARS

*IMMOVABLE PROPERTY.
*EVIDENCE.
*NEGOTIABLE INSTRUMENTS AND BANKING.
*COMMERCIAL SALES.
INSURANCE.
CORPORATIONS.
*BANKRUPTCY AND INSOLVENCY.
PUBLIC INTERNATIONAL LAW.
*PRIVATE INTERNATIONAL LAW.
AGENCY.
PARTNERSHIP.
MERCHANT SHIPPING AND ADMIRALTY LAW.
*CONSTITUTIONAL LAW.
MUNICIPAL CORPORATIONS.
*WILLS, SUBSTITUTIONS, etc.
*CIVIL PROCEDURE.
*MARRIAGE COVENANTS, etc.
LEASE, HIRE, and PRESCRIPTION.
SUCCESSIONS and GIFTS.
*COMPARATIVE LAW.
*ROMAN LAW.
*NOTARIAL LAW (for notarial students only).
CARRIERS.
CRIMINAL LAW.

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*Lectures on these subjects will be given in the session 1925-26.

EXAMINATIONS

There will be written examinations at the end of each session upon the work done during that session, as well as term examinations. At the final examinations questions may be set upon any subject studied by the student during the three-year course. The written examinations may be supplemented by oral examinations in cases where the Faculty considers such action desirable.

At the close of each term or session all students must present themselves for examination in every subject for which they are registered. No student will be permitted to present himself for examination who has not regularly attended the lectures upon the subject, unless he has been prevented by some necessary cause and his absence has been excused by the Dean.

The pass mark is 50% for each paper and an average of 60% for the whole examination. Successful students will be graded in three classes, and the names of those in each class will be published in order of merit, but the marks awarded upon the various papers will not be published.

Subject to the approval of the Faculty in each case, a student who has been prevented by illness from taking certain papers in the sessional examination may be permitted to take supplemental papers on the same subjects in September. A fee of $5.00 will be payable in respect of each paper. No other supplemental examinations will be granted.

At all examinations in the Faculty students are at liberty to write their answers either in English or in French.

PROGRAMME OF STUDIES

Pending the preparation of a series of case-books suitable for Canadian use the lecturers will indicate to the students the cases and other authorities required for study in each course.

FIRST YEAR LECTURES

ROMAN LAW

Three hours throughout the session. Professor Corbett.

CRIMINAL LAW

Two hours in the first term. Professor Smith.

CRIMINAL PROCEDURE

One hour in the first term and two hours in the second term.
Professor Greenshields.

OBLIGATIONS

Two hours throughout the session. Professor Howard.

JURISPRUDENCE

Two hours in the first term. Professor Smith.

CIVIL PROCEDURE

Three hours in the first term. Professor Surveyer.

PROPERTY

Two hours in the second term. Associate Professor LeMesurier.

PERSONS

Two hours in the first term, one in the second.
Associate Professor LeMesurier.

LEGAL HISTORY

Two hours in the second term. Professor Corbett.

SECOND AND THIRD YEAR LECTURES

The lectures to senior students are divided into two groups, given in alternate years.

Subjects treated in the Session 1925-26

MARRIAGE COVENANTS AND MINOR CONTRACTS

Two hours throughout the session. Associate Professor Chipman.

PRIVATE INTERNATIONAL LAW

Two hours in the first term. Professor Macdougall.

EVIDENCE

Two hours in the second term. Professor Wainwright.

NEGOTIABLE INSTRUMENTS AND BANKING

Three hours in the first term. Associate Professor LeMesurier.

IMMOVABLE PROPERTY

Two hours in the second term. Associate Professor LeMesurier.

CIVIL PROCEDURE (QUEBEC)

Three hours in the second term. Professor Surveyer.

COMMERCIAL SALES

Two hours in the first term. Assistant Professor Tyndale.

BANKRUPTCY AND INSOLVENCY

Two hours in the first term. Professor Martin.

WILLS, SUBSTITUTIONS, AND TRUSTS (CIVIL CODE)

Two hours in the first term. Mr. Beullac.

ROMAN LAW

One hour in the first term. Professor Corbett.
One hour in the second term (for Second Year Students only).

COMPARATIVE LAW

One hour throughout the session. Hon. Thibaudeau Rinfret.

CRIMINAL LAW

One hour in the second term. Mr. Smith.

CONSTITUTIONAL LAW

Two hours in the second term (Second Year only). Professor Smith.

NOTARIAL LAW (FOR NOTARIAL STUDENTS ONLY)

Two hours in the second term. Mr. Bridgman.

Special tutorial classes for students in the Third Year will be conducted as follows:—

ROMAN LAW

One hour in the second term. Professor Corbett.

CIVIL CODE

One hour throughout the session. Associate Professor LeMesurier.

CIVIL PROCEDURE

One hour in first term. Associate Professor LeMesurier.

SPECIAL LECTURES

The Hon. Mr. Justice Mignault will deliver two lectures on "Legal Ethics" in the course of each session.

Other Subjects Given in the Second and Third Years

The list given below corresponds to that arranged for the session 1924-25. Students will understand that it is liable to modification.

LEASE, HIRE, AND PRESCRIPTION (CIVIL CODE).

Assistant Professor Chipman.

PUBLIC INTERNATIONAL LAW.

Professor Corbett.

CIVIL PROCEDURE.

Professor Surveyer.

CONSTITUTIONAL LAW.

Professor Smith.

INSURANCE.

Assistant Professor Tyndale.

CORPORATIONS.

Professor Martin.

AGENCY.

Associate Professor LeMesurier.

PARTNERSHIP.

Associate Professor LeMesurier.

NOTARIAL LAW (FOR NOTARIAL STUDENTS ONLY).

Mr. Bridgman.

SUCCESSIONS AND GIFTS.

Mr. Beullac.

IMMOVABLE PROPERTY.

Associate Professor LeMesurier.

MERCHANT SHIPPING AND ADMIRALTY LAW.

Professor Smith

MUNICIPAL CODE OF QUEBEC.

Hon. Thibaudeau Rinfret.

ROMAN LAW (SPECIAL TOPICS).

Professor Corbett

CARRIERS.

Associate Professor LeMesurier.

ADMISSION TO THE PRACTICE OF LAW IN QUEBEC

The attention of students who wish to be admitted to the Bar or to the notarial profession in Quebec, is drawn to the following summary of the statutory provisions governing the practice of law in the Province:—

1. REGULATIONS APPLICABLE TO THOSE WHO INTEND TO BECOME MEMBERS OF THE BAR.

N.B.—The articles are here abridged.

Article 4522 R.S.Q.—Examinations for admission to study and to practise law in the Province of Quebec are held at the time and place determined by the General Council.

The examinations are held alternately in Montreal and Quebec every six months; namely, at Montreal, on the second Tuesday of each January, and at Quebec, on the first Tuesday of each July.

All information concerning these examinations can be obtained from the Secretary-Treasurer of the General Council. The present General Secretary is Mr. Victor Martineau, K.C., 17 St. James Street, Montreal.

Article 4524.—Candidates must give notice, as prescribed by this article, at least one month before the time fixed for the examination to the Secretary of the section in which he has his domicile or in which he has resided for the past six months.

Article 4475.—This article provides that candidates holding the degree of Bachelor of Arts, Bachelor of Science, or Bachelor of Letters, from any Canadian or British University are dispensed from the examination for admission to study. Such candidates are required to give the notice mentioned above.

Article 4526 R.S.Q. (as altered by by-law of the General Council).—On giving the notice prescribed by Article 4524, the candidate pays the Secretary a fee of $2.00, and makes a deposit of $125.00 for a complete certificate of admission to study; of $70.00 for a partial certificate of admission to study; and $200.00 for admission to practice, which deposit, less $30.00, is returned in case of his not being admitted.

Article 4531.—To be admitted to practice, the student must be a British subject and must have studied regularly and without interruption during ordinary office hours, under indentures entered into before a notary, as clerk or student with a practising advocate during four years, *dating from the registration of the certificate of admission to study*. In the case of a student who has followed a regular law course

in a university or college in this Province and taken a degree in law therein the term is reduced to three years, carried on concurrently with the law course, or to one year after having received the said degree.

The By-laws passed by the General Council of the Bar of the Province of Quebec provide as follows:—

Article 51.—A course of lectures on law given and followed at a university or law school of this Province, and the diploma or law degree conferred on students by such university or law school, shall count with reference to the Bar Act, only if the course of study hereinafter outlined has been effectively followed by the university or law school and by the holder of the diploma. (R.S.Q., ss. 1483, §4531.)

Article 52.—A regular law course in a university or law school of this Province consists of seven hundred and eighty-five lectures of one hour each. These lectures are given on the various subjects in the following proportions:—

Roman Law:—103 lectures:—This course comprises an introduction to the study of law, with explanatory remarks and comments on the Institutes of Justinian and on the principal Roman jurisconsults.

Civil, Commercial and Maritime Laws—413 lectures:—The course on these subjects must cover a period of at least three years. It comprises the history of French and Canadian law, explanatory remarks and comments on the Civil Code and on the statutes respecting commerce and shipping.

Civil Procedure:—103 lectures:—This course must extend over at least two years. It comprises explanatory remarks and comments on the Code of Civil Procedure and of its statutory amendments, a study of the organization of the Civil Court of this Province and the history of the different judicial systems of the country; also the special modes of procedure provided by the statutes and by the by-laws in general, as well as the Bar Act and the By-laws regarding the discipline of the Bar.

Public and Private International Law:—21 lectures:—This course comprises an historical outline, the sources of this law and of its subject matter, its objects (primary and secondary rights of sovereign states), rules of war, commercial and extradition treaties, etc., in force in Canada, as well as the rights and obligations of the citizens of the Province of Quebec and of Canada, and of aliens in the event of conflict of laws.

Criminal Law:—69 lectures:—This course comprises the history of Canadian criminal law, the organization of the criminal courts,

criminal procedure, comments on the criminal law of the country, a comparative study of English and Canadian criminal law. The lectures shall extend over two years.

CONSTITUTIONAL AND ADMINISTRATIVE LAW:—41 lectures:—This course comprises an enquiry into the different constitutional enactments and public institutions of the country, the powers, the organization, the procedure of the Federal Parliament and of the Provincial Legislatures, the laws on Education, and the Municipal Code.

COMPARATIVE LAW:—30 lectures:—This course comprises a concise enquiry into the English common law, and a general knowledge of the main principles underlying the civil and commercial laws of the other Provinces of Canada.

Article 53:—The candidate for admission to practice who has obtained a law degree from a university or law school of this Province, must file, together with this notice, a certificate from the Principal or Head of such university or law school establishing that he has followed a law course in such university or law school during at least three years, in conformity with the Bar Act, and, moreover, specifying the number of lectures he has actually attended in each subject comprised in the foregoing curriculum during each of the three years and during the three years as a whole.

Article 54:—The examiners must refuse to accept such degree as valid under the provisions of the Bar Act, if they are of the opinion that the course of study hereinabove outlined has not been effectually followed by the candidate.

II. REGULATIONS APPLICABLE TO THOSE WHO INTEND TO BECOME NOTARIES.

For the regulations applicable to candidates for the notarial profession, see Revised Statutes of Quebec, Articles 4774-4807.

FACULTY OF DENTISTRY

FOUNDATION AND HISTORY

The Dental Department of McGill University was established as a Department of the Faculty of Medicine, in the autumn of 1903. This fact insured for the student the very best training in anatomy, physiology, histology, embryology, bacteriology, chemistry, etc., those fundamental subjects, a knowledge of which underlies a successful practice along modern lines of preventive dentistry.

At that time the didactic teaching and laboratory work were carried on in the lecture rooms and laboratories of the Medical Building, clinical instruction being given at the Dental Infirmary, a clinic conducted by the Dental Association of the Province of Quebec. This arrangement fulfilled the requirements of the Department for a time, but soon the need of separate quarters for didactic and laboratory instruction and also of improved clinical facilities was felt. These have been supplied, first, by the assignment to the Department of a portion of the east wing of the Medical Building, and, second, by the establishment of a clinic at the Montreal General Hospital.

The new quarters of the Faculty occupy the northern half of the first floor of the east wing of the Medical Building. Here are provided all the necessary lecture rooms and laboratories, as well as private rooms for the members of the staff. The laboratories are equipped with the latest apparatus and appliances for teaching practical dental operations.

The clinic at the Montreal General Hospital was established in connection with the out-patient department of the Hospital in the early part of the session 1908-09.

The rapid growth of the Faculty, however, soon made necessary the enlargement of the facilities for teaching Clinical Dentistry, and so in 1921 the University, acting conjointly with the Governors of the Montreal General Hospital, thoroughly remodelled the space used for the clinic, and in addition erected a new wing 80 ft. x 36 ft.—the entire wing being occupied by dental chairs and other equipment. This gives to the Faculty one of the most thoroughly equipped dental clinics on the Continent. In addition to the splendid equipment and facilities provided in the Hospital clinic, students of the Dental Faculty share with the other departments the advantages of the great Hospital with which it is connected, such as a splendid "X" ray department and a well-managed pathological department. They also have the privileges of the

surgical operating amphitheatre, and the Hospital anæsthetists are always available for operations in connection with the oral cavity.

Notwithstanding the greatly increased facilities for dealing with a large number of patients the number attending the dental clinic is still adequate, and more than adequate, to supply the students with every possible method of dental treatment. The Staff of Clinical Instructors is being very materially enlarged, so that the students in the clinic are assured of intelligent supervision and co-operation. The equipment is modern in every respect.

The Medical and Dental Library of McGill is one of the finest in America, so that students who desire it may have the benefit of a great reference library.

The Dean devotes his entire time to the work of the Faculty, thus insuring for the students careful and continuous oversight in both theoretical and practical work.

ENTRANCE REQUIREMENTS

(I) For the session 1925-26:—

(*a*) Candidates who intend to practise in the *Province of Quebec* must present satisfactory evidence of the completion of two full years in the Faculty of Arts of any recognized English University in this Province.

(*b*) Candidates who do not intend to practise in the *Province of Quebec* must present satisfactory evidence of the completion of one full year in the Faculty of Arts of any recognized University.

(II) For the session 1926-27 and thereafter:—

Every candidate for admission to the First Year in the Faculty of Dentistry must have completed two full years in the Faculty of Arts of a recognized University, including lectures and laboratory work in *Chemistry* (Inorganic and Organic), *Physics* and *Biology*.

In the case of those who intend to practise in the *Province of Quebec* these two years must be taken in a recognized English University in that Province.

Courses specially designed to meet these requirements are offered in the Faculty of Arts of McGill University, where a student may take the two years of study required, or the second of the two if they have satisfied the requirements of the first by Senior Matriculation or otherwise.

PROVINCIAL REGISTRATION

Intending students are reminded that a University degree in Dentistry does not of itself give a right to practise the profession of Dentistry. It is necessary to comply with the Dental laws of the country, state, or province in which it is proposed to begin practice. Each province in Canada at present has special requirements for its license, and in all of them a certain standard of general education is insisted upon before beginning the study of Dentistry. *Students who intend practising in Canada are advised to register their qualifications in the province in which they intend to practise, before they begin their University course.*

The following is a list of the Registrars of the several Canadian Provinces. Students are advised to write for information whenever they are in doubt as to the regulation of any province.

**Ontario.*—W. E. Wilmott, Toronto.
**Nova Scotia.*—Geo. K. Thompson, D.D.S., Halifax.
**New Brunswick.*—F. A. Godsoe, D.D.S., St. John.
**Prince Edward Island.*—J. S. Bagnall, D.D.S., Charlottetown.
**Manitoba*—H. F. Christie, D.D.S., 626 Somerset Block, Winnipeg.
**Alberta.*—A. E. Hennigar, D.D.S., Herald Building, Calgary, Alta.
**Saskatchewan.*—L. J. D. Faskin, Regina.
Quebec.—Dr. Denis Forest, 187 de la Roche St., Montreal.
**British Columbia.*—Albert Brighouse, Vancouver.

DOMINION DENTAL COUNCIL OF CANADA

Eight of the nine Canadian Provinces (*i.e.*, all but Quebec,) have entered into an agreement whereby the holder of a license granted by the Dominion Dental Council may practise in any of the subscribing provinces. In order to obtain this license a candidate must: (1) Hold a matriculation certificate of the proper standard; (2) Pass the examination set by the council, and (3) Pay the local provincial registration fee.

The Secretary of the Dominion Dental Council is Major W. D. Cowan, M.P., Regina, Sask.

All students entering the University for the first time are required to present a certificate, or other satisfactory evidence, of successful vaccination, failing which, they shall at once be vaccinated in a manner

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* Members of the Dominion Dental Council.

VACCINATION AND PHYSICAL EXAMINATION

satisfactory to the medical examiner. Students who do not give evidence of successful vaccination or who do not present themselves for medical examination (or otherwise satisfy the Director) before November 1st, will not be allowed to attend the University.

For regulations regarding physical examination, see page 76.

COURSE FOR THE DEGREE OF D.D.S*

As will be seen from the announcement on page —, beginning with the Session 1926-27, candidates for the degree of D.D.S. must complete two years of pre-dental training in a College or Faculty of Arts before entering upon the four-year course in this Faculty. The curriculum for the new course commencing in that year will be announced later.

For the Session 1925-26 the curriculum will be as follows:—

FIRST YEAR

Anatomy (human).
Biology (general).
Chemistry (general and practical).
Dental Anatomy.
Physics.
Physical Education (two hours per week).

SECOND YEAR

Anatomy (human).
Crown and Bridge Work.
Dental Metallurgy.
Dental Histology and Embryology.
Operative Technic.
Physiology.
Prosthetic Technic.
Physical Education (two hours per week).

THIRD YEAR

Bacteriology.
Crown and Bridge Work.
Dental History and Economics.
Dental Jurisprudence.
Dental Materia Medica and Therapeutics.
Operative Dentistry.
Orthodontia.
Pathology (General).
Prosthetic Dentistry.

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*It should be understood that the programme and regulations regarding courses of study and examinations contained in this calendar hold good for this calendar year only, and that the Faculty, while fully sensible of its obligations towards the students, does not hold itself bound to adhere absolutely, for the whole four years of a student's course, to the conditions here laid down.

FOURTH YEAR

General Anaesthesia.
Local Anaesthesia.
Materia Medica.
Operative Dentistry.
Orthodontia.
Dental Pathology.
Prosthetic Dentistry.
Oral Surgery.
Crown and Bridge Work.
Oral Hygiene.

EXAMINATIONS

Frequent oral examinations are held to test the progress of the student, and occasional written examinations are given throughout the session.

A minimum of 50 per cent. in each subject is required to pass, and 75 per cent. for honours.

All examinations in each year must be passed before a student will be allowed to advance to the next.

Candidates who fail at the regular examinations in not more than three subjects of the First, Second or Third Years, may, at the discretion of the Faculty, be allowed to take the supplementary examinations before the beginning of the following session. These examinations will be held during the week preceding the regular opening of the session.

Failure in more than three subjects of the First, Second or Third Years at the regular examinations excludes the candidate from advancement.

Students who fail in one subject only of the Final Year may, at the discretion of the Faculty, be allowed a supplementary examination in that subject. Should the subject be one in which practical or clinical work is required, the student must furnish a certificate of additional clinical attendance or laboratory work before presenting himself for examination.

Applications for supplemental examinations must be in the hands of the Dean at least three days before the date set for the beginning of the examination, and they must be accompanied by a fee of $5.00 for each subject.

QUALIFICATIONS FOR THE DEGREE

1. No one will be admitted to the degree of Doctor of Dental Surgery who shall not have attended lectures for a period of four sessions in this University, or partly in this University and partly in some other approved university, college or school of dentistry.

2. Students of other universities, so approved, who may be admitted on production of certificates to a like standing in this University, shall be required to pass an oral examination in primary subjects, and all examinations in the final subjects in the same manner as students of this University.

No one will be permitted to become a candidate for the degree who has not attended at least one full session at this University.

3. Candidates for the final examination shall furnish testimonials of attendance on the following branches of dental education; provided, however, that testimonials equivalent to, though not precisely the same as, those stated above, may be presented and accepted.

Biology, General Chemistry, Practical Chemistry, Physics, Histology, Embryology, Anatomy, Practical Anatomy, Physiology, Practical Physiology, Bacteriology, Dental Materia Medica and Therapeutics, Pharmacology, Dental Pathology, General Pathology, Dental Anatomy, Dental Histology, Metallurgy, Dental Surgery, Dental Hygiene, Dental Jurisprudence, Operative Dentistry, Prosthetic Dentistry, Crown and Bridge Work, Orthodontia, Anaesthesia, Oral Surgery, Dental History and Economics.

4. Every candidate for the degree must, on or before the 1st day of May, present to the Dean of the Faculty testimonials of his qualifications, entitling him to an examination, and must at the same time submit an affirmation or affidavit that he has attained the age of twenty-one years.

COURSES OF LECTURES

ANATOMY

THE ROBERT REFORD PROFESSOR:—S. E. WHITNALL.
ASSOCIATE PROFESSOR OF HISTOLOGY AND EMBRYOLOGY:—J. C. SIMPSON.
LECTURER IN EMBRYOLOGY:—F. SLATER JACKSON.
ASSISTANT PROFESSOR OF ANATOMY:—I. MACLAREN THOMPSON.
LECTURER IN ANATOMY:—H. E. MACDERMOT.
LECTURER IN HISTOLOGY:—W. M. FISK.
SENIOR DEMONSTRATOR IN ANATOMY:—A. D. CAMPBELL.

DEMONSTRATORS IN ANATOMY:—
L. H. MCKIM.
F. J. TEES.
G. A. FLEET.
R. B. MALCOLM.
A. ROSS.
F. N. K. FALLS.
A. J. MARTIN.
N. T. WILLIAMSON.
T. M. RICHARDSON.

The course covers two years, and is planned so that after making a general survey of the whole body, the dental student concentrates his attention on the head and neck. He is thus enabled to study in greater detail those parts which are related to his particular province, and he avoids spending undue time over regions which possess no special educational or professional value for him. A special Lecturer supervises the work under the direction of the Professor.

First Year:—One lecture and one practical demonstration in the dissecting room per week throughout the session. The lectures serve as introductions to the various systems of the body—osseous, muscular, nervous, vascular, digestive, etc. The demonstrations are designed to take the students in small groups over the whole body, illustrating and further explaining the systems noted above. The students can handle and study for themselves the actual parts displayed.

Second Year:—Two lectures and ten hours dissecting per week throughout the session. The arm is first dissected as an introduction to technique, methods, and nomenclature. The thorax and abdomen are dissected with a view to understanding the functions of circulation, respiration, digestion, excretion, etc. The head and neck are thoroughly dissected in detail. Osteology classes on the skull with

special regional demonstrations are held, and a course of 20 advanced lectures on the face, palate, and jaws is given by the Professor and Assistants. Dissected brains are demonstrated and studied to understand in particular the origin and connection of the cerebral nerves, the paths of reflex impulses, etc. Finally, demonstrations are given on the organs of special sense.

The work is supplemented by a course on the special anatomy of the teeth, conducted by the Dental Department.

Histology and Embryology.

Second Year:—One lecture and one laboratory period per week throughout the session.

The course includes:—

(1) A survey of the general principles of embryology and of the early stages in the development of the human embryo.

(2) A detailed study of the fundamental tissues of the human body.

(3) A study of the development and microscopic structure of the organs and systems, in which the head and neck and the circulatory, digestive, and respiratory systems are considered in detail, whilst the remaining systems are treated in a more general way.

Text-books:—Gray or Cunningham, Morris, Quain, Piersol; Practical Anatomy, Parsons and Wright, Vol. II and Cunningham, Vol. III; Histology, Jordan, Noyes, Schafer's Elements, Bailey.

BIOLOGY

The course in Biology for Dental students is conducted, conjointly, by the University Departments of Botany and Zoology. It consists of three parts:—

Part I

PROFESSOR OF BOTANY:—FRANCIS E. LLOYD.
ASSISTANT PROFESSOR:—GEORGE W. SCARTH.

This part of the course deals with the rationale and simple technique of microscopic vision, including both light and dark field illumination (ultramicroscope). Twelve lectures and twelve laboratory periods, three of each per week, during the first month of the session.

Part II

PROFESSOR OF ZOOLOGY:—ARTHUR WILLEY.
LECTURER:—M. NOTKIN.

The course in Elementary Zoology is that part of the pre-medical curriculum which introduces the student to some of the terms and principles of animal biology. The manner in which the leading func-

tions of the body are performed in a number of selected types is explained, thereby preparing the student for the reception of the more advanced instruction in human anatomy and physiology.

Part III

PROFESSOR OF BOTANY:—FRANCIS E. LLOYD.
ASSISTANT PROFESSOR:—GEORGE W. SCARTH.

This part of the course is a continuation of Part I and runs concurrently with the course in Histology and Embryology. It is designed to present to the student the principles of general biology as illustrated by plants.

CHEMISTRY

PROFESSOR OF CHEMISTRY:—R. F. RUTTAN.
ASSOCIATE PROFESSOR:—N. N. EVANS.
ASSISTANT PROFESSOR:—W. H. HATCHER.

Instruction in Chemistry for students in Dentistry is given during the first year and is identical with the course given to First Year students in Medicine.

During the session the principles governing chemical action are studied in a systematic laboratory course of two periods per week. A printed synopsis of the work of each day is provided and necessary explanations are given before beginning the work. The course includes a study of chemical phenomena; the preparation and properties of typical elements and compounds; the laws of chemical action; gravimetric and volumetric determinations, and a short course in qualitative and quantitative analysis. The student is required to pay special attention to the keeping of an accurate record of his observations and calculations; note-books for this purpose are provided and are examined and criticized by the demonstrators. An examination is held at the end of the session.

During the session, a course in experimental lectures in general chemistry is given; three per week, with frequent reviews and examinations. This course is designed to familiarize the student with the characteristics of chemical action and the conditions which modify it rather than a detailed study of the preparation and properties of the elements and their compounds. An examination is held at the end of the term.

Text-books:—Macpherson and Henderson, General Chemistry; Smith's Intermediate Chemistry.

CROWN AND BRIDGE WORK

PROFESSOR:—A. W. THORNTON.

This subject will be taught (as an integral part of Prosthetic Dentistry) by a course of lectures and a series of laboratory demonstrations leading up to the clinical experience given the student in the Dental Clinic.

The general conditions which indicate and the principles which underlie the use of this method in the replacement of lost teeth will be considered, together with the preparation of the natural teeth for the reception of artificial crowns and partial plate attachments.

Concurrently with a description of the various artificial crowns given in the lecture room, the student will be required to construct them in the laboratory under the direction of a demonstrator.

Exhibition work is required in both crown and bridge work, to be placed in the hands of the Professor at the end of the winter term.

Text-books:—Goslee, Peeso.

DENTAL ANATOMY

LECTURER:—J. W. ABRAHAM.

This course, given in connection with general anatomy in the First Year, is to give the student a thorough knowledge of the size, shape, uses, and general construction of the natural teeth, their articulation and composition.

This is accomplished by lectures and demonstrations, with the use of drawings, models and lantern slides.

The student is first made to draw, then to model in clay, several teeth chosen by the lecturer. He then carves in ivory sixteen teeth, representing all the forms in the human mouth, which are then articulated anatomically. These are used later on by the student in his work in operative dentistry.

Different sections of extracted teeth are made, to familiarize the student with the relationship of the different structures composing the teeth.

The total time given this subject during the First Year is five hours a week for a period of twenty-six weeks, total one hundred and thirty hours, divided as follows:—one hour a week devoted to lectures, twenty-six hours; four hours a week to demonstrating, modelling, carving, making sections, etc., one hundred and four hours.

Text-book:—Black.

DENTAL HISTORY, ETHICS AND ECONOMICS

LECTURER:—F. A. STEVENSON.

History:—

This course is intended to give to the student an intelligent conception of the evolution and development of Dentistry from the primitive conditions and methods of the past to the present standing of the profession as a branch of the healing art. The relation of some of the outstanding men of the profession to this development will also be dealt with.

Ethics:—

Under this head the moral social and business relationships between the dentist and his patient will be discussed, as well as his duty to the public, his fellow practitioner and himself.

Economics:—

Under this head the business of the dentist's life will be considered. The questions of office equipment, keeping of appointments, overhead charges, methods of determining fees, office assistants, etc., will be taken up.

DENTAL JURISPRUDENCE

PROFESSOR:—W. L. BOND.

In this course, the lecturer will discuss the laws governing the practice of Dentistry, their necessity and purpose.

The responsibility of the dentist under the laws of the Province, his position as defendant in suits for damages and as plaintiff in suits for fees, etc., will be fully explained.

MATERIA MEDICA AND THERAPEUTICS

PROFESSOR:—FRED. G. HENRY.

In the Fourth Year a course of demonstrations and lectures in this subject is given, extending throughout the whole session. This comprises the study of the physical properties, chemical composition and physiological action of the various medicinal substances used in the treatment of diseased conditions of the dental organs and morbid conditions of the oral cavity, together with their various applications, doses, antidotes, and contraindications, with instruction in prescribing, etc. Anæsthesia and the various anæsthetics are also taken up, following that already given in the Second Year.

Text-books:—Hare, Buckley, Prinz; Local Anæsthesia, Arthur E. Smith.

METALLURGY

PROFESSOR:—ALFRED STANSFIELD.

ASSISTANT PROFESSOR:—GORDON SPROULE.

This course is given to Dental students of the Second Year by the Metallurgical Department of the University.

It consists of twelve lectures of one hour, and twelve laboratory periods of two and a half hours each.

The lecture course covers:—

(1) Introductory lectures on the physical and chemical properties of metals, especially in relation to their use in dentistry.

(2) Methods of melting, casting and alloying metals in the laboratory.

(3) Methods of extracting metals from their ores.

(4) The nature and preparation of alloys, including amalgams.

(5) The metals used in dentistry (lead, zinc, tin, bismuth, cadmium, antimony, aluminium, copper, silver, gold, platinum, iridium, mercury, iron and steel) are considered separately in regard to their properties, uses in dentistry, and, as far as time allows, extraction from their ores. The separation, purification and alloying of gold, silver and platinum are specially considered.

(6) The manufacture, properties and uses of dental amalgams.

Text-book:—J. D. Hodgen, "Practical Dental Metallurgy."

The laboratory course includes experimental work with the metals: gold, silver, copper, lead, zinc, tin, aluminium and nickel.

The metals are melted, alloyed, cast, hammered, filed, cut, rolled, annealed and tested with acids and other chemicals.

The preparation of pure gold and silver is carried out and the production and testing of dental and other amalgams.

The course is given during the first term of each session by Mr. Sproule.

OPERATIVE DENTISTRY

PROFESSOR:—F. H. A. BAXTER.

LECTURER:—A. L. WALSH.

The purpose of this course is to make the students thoroughly familiar with all modern and accepted methods. The course of lectures extends over two years and a half, and includes discussion of the treatment of caries; the preparation of cavities, the materials used for filling, the most approved instruments and appliances used in

operating upon the teeth. Clincs will be held at the Dental Clinic, where ample material is provided and every available means used to make the student practically conversant with all the up-to-date knowledge of this important branch of dental science.

In conjunction with this course, operative technics is taken up, which provides a systematic course in manual training, thoroughly familiarizing the student with the anatomy of the teeth, and the shaping of cavities, from the simple to the more complex. This is carried out on models, using the different regular filling materials, scaling, bleaching, and, so far as possible, all of the operative procedures.

The Dental Clinic is open throughout the whole year, and students are advised to give as long a time to this work as possible. Each student must provide himself with the instruments necessary for his own use, a list of which will be furnished. He is required to perform all the usual dental operations as they present themselves, under the supervision of competent demonstrators, who are always at hand to offer advice and assistance under the direction of the Professor. Between the Second and Third Years, and also between the Third and Fourth Years, students are required to spend two full months doing practical work in the Hospital Clinic.

Porcelain:—This course consists of the study of porcelain in its various uses. It is taught by means of lectures and demonstrations, as well as by practical work by the students themselves under supervision.

Preparation of cavities for inlays, preparing matrices and the various methods in which porcelain may be employed in crown and bridge work are dwelt upon.

Text-books:—Johnson, Black.

ORAL SURGERY

LECTURER:—C. K. P. HENRY.

This course is essentially clinical. All lectures and demonstrations are given in the wards and the clinical theatre in the Outdoor Department of the Montreal General Hospital. Cases showing injuries and diseases of the mouth and jaws are demonstrated and the appropriate treatment shown, including operative procedures under local and general anæsthesia. Once a month a surgical pathological conference is held in the Department of Pathology of the hospital, with Dr. Lawrence J. Rhea, Director of the Pathological Department.

Text-books:—Oral Surgery, Blair and Ivy, 1923; Brophy's Oral Surgery; Dental Infections, Oral and Systemic, Weston Price, 2 Vols.; Marshall.

ORTHODONTIA

PROFESSOR:—A. W. McCLELLAND.

The course in this branch will commence with the study of the dental organs during development and eruption.

Special attention will be given to the temporary teeth and the influence they exert in directing the normal occlusion of their permanent successors. The student will be directed to the importance of the study of the etiology of this subject, and its relation to the prevention and treatment of malocclusion. Cases deviating from the normal, typical of every variety met with in practice, will be dealt with and a classification made based on the treatment required.

The different methods employed in correcting these conditions will be fully demonstrated, together with the mechanical appliances used.

Ample clinical material is available at the Dental Clinic, where students in the final year will be allotted cases, the treatment of which will be carried on throughout the session.

Text-books:—Angle, Pullen, Lischer, Dewey.

PATHOLOGY AND BACTERIOLOGY

PROFESSOR OF DENTAL PATHOLOGY:—FRED. G. HENRY.
PROFESSOR OF PATHOLOGY:—HORST OERTEL.
ASSISTANT PROFESSOR OF BACTERIOLOGY:—A. A. BRUERE.
LECTURER IN PATHOLOGY:—C. T. CROWDY.
DEMONSTRATOR IN PATHOLOGY:—J. W. SCOTT.

Dental Pathology.

This course is given to the students of the Third and Fourth Years, and includes a consideration of the various diseases of the enamel, dentine, dental pulp and peridental membrane, their symptomatology and treatment, also a consideration of abnormal conditions of the tissues of the oral cavity with a description of treatment and management of these diseases.

Special attention will also be given to pathological conditions of the nerve structures of the head and their connections with the diseased conditions of the dental tissues.

The mitigation of pain in dental operations receives special attention and the various means employed fully developed and explained, and such directions given as will enable the student to avoid methods and drugs harmful to the tissues.

Bacteriology.

A course of lectures upon bacteriology in relation to disease for students of the Third Year; lectures given twice a week during the autumn term.

A practical course in the bacteriology of infectious diseases for students of the Third Year. Two periods a week during the autumn term.

Text-books:—Dental Pathology and Pharmacology, Burchard and Inglis, Endelman and Wagner and Black; Bacteriology, Muir and Ritchie, McFarland, Park, Connell.

MATERIA MEDICA AND PHARMACY

PROFESSOR:—ALEX. B. J. MOORE.

The course in Materia Medica and Pharmacy is given in the Third Year:—

This course of about twenty-five lectures and demonstrations covers pharmacognosy, therapeutics and toxicology.

Pharmacopœias—B.P., U.S.P., B.P.C., and various hospital formularies;

Drugs—All organic and inorganic chemicals such as:—alkaloids—glucosides, essential oils, stearoptenes, mineral salts, coal tar and its derivatives, animal products, synthetics, their sources and medicinal properties;

Therapeutical classification of drugs, such as:—anæsthetics, anodynes, antiseptics, caustics, hypnotics, hæmostatics, counter-irritants, etc., etc.;

Toxicology—Toxic doses of potent drugs with chemical and therapeutical antidotes; toxic drugs, their action and administration;

Habit-forming drugs—cocaine, heroin, morphine, etc.;

Posology—

Prescription Writing — Various systems of prescribing symbols, correct abbreviations, incompatibility;

Pharmacy—nomenclature, metrology, specific gravity, percentage solutions, sterilization;

Pharmaceutical Preparations — tinctures, pigments, spirits, collodions, hypodermic injections, mouth washes, dentifrices, fluid extracts, tablets, etc.;

Methods of Manufacture.

Text-books:—Dixon, Cushny.

PHYSICAL EDUCATION

DIRECTOR:—ARTHUR S. LAMB, B.P.E., M.D.
UNIVERSITY MEDICAL OFFICER:—F. W. HARVEY, B.A., M.D.

Physical education is compulsory for all students of the first two years. Two periods per week will be devoted to it.

Any student participating in competitive athletics may be excused from other forms of exercise during the session of training, providing that this is performed to the satisfaction of the Director.

Unexcused absences up to one-eighth of the required number of periods shall be allowed. Unexcused absences exceeding one-eighth, but not exceeding one-fourth, may be allowed if at the end of the session the student passes a special examination and satisfies the Director that he has made sufficient progress. Unexcused absences exceeding one-fourth shall disqualify a student. Such students shall be required to take extra gymnasium class work to the satisfaction of the Director, a supplemental course being given in the month of September for this purpose.

At regular intervals during each session, and also at the end of each session, the Director of Physical Education shall furnish the Dean of each Faculty with a list of students who have failed to meet the attendance requirements as laid down in the ordinary curriculum, or who have proved unsatisfactory in other respects, and such cases shall be dealt with by the respective Faculties.

No student in default shall be allowed to proceed to the next year of his course unless for special reasons exemption should be granted on the recommendation of the Faculty and approved by the Committee on Physical Education.

Not less than one month before the conferring of degrees in each session the Director shall furnish to the Registrar of the University, for transmission to Corporation and the Faculties concerned, a list of all students, being candidates for degrees at the forthcoming Convocation, who have failed to satisfy the requirements of the Committee on Physical Education, and no Diploma for a degree shall be issued to any such candidate unless by the express direction of Corporation.

PHYSICS

DIRECTOR:—A. S. EVE.

ASSISTANT PROFESSORS:—H. E. REILLEY. D. A. KEYS.

DEMONSTRATORS:—A. V. DOUGLAS. M. HOME. B. PRIESTMAN.

First Year.—This course is given in the Physics Building of the University. It consists of three lectures and a laboratory period of three hours per week.

The lectures are experimental in character, especially designed to meet the requirements of students in Medicine and Dentistry. The course includes a study of energy, simple machines, properties of matter, fluid pressure, fluid motion, capillary phenomena; production, transmission and interpretation of sound; temperature and temperature measurements, gas laws and kinetic theory, heat capacity, latent heats, laws of vaporization, humidity measurements, heat conduction; elements of magnetism, laws of electrostatics, electrostatic induction and condensers; primary batteries, Ohms' law and its applications, measurements of resistance and electromotive force, measuring instruments, magnetic effects of a current, induced currents, induction coil, conduction through gases, properties of cathode rays and X-rays; radioactive substances and their radiations; laws of reflection and refraction of light, mirrors, lenses and lens combinations, microscopes, telescopes, spectra, spectrum analysis, colour, interference, crystallography, polarized light, and saccharimetry.

In the laboratory the student learns the use of such instruments as the balance, vernier, spherometer, hydrometer, hygrometer, spectroscope, saccharimeter, electroscope. Verifications are made of Archimedes' principle, Boyle's law, laws of reflection and refraction, Ohms' law, etc. Measurements are taken of specific gravities, frequencies, specific heats, latent heats, electrical resistance, focal lengths, besides qualitative experiments illustrating the more important physical principles.

Text-books:—Physics, by A. W. Duff, and Laboratory Manual, First Year Course in Physics (Renouf Publishing Co.).

PHYSIOLOGY

THE MORLEY DRAKE PROFESSOR AND DIRECTOR OF EXPERIMENTAL MEDICINE:—JOHN TAIT.

ASSISTANT PROFESSOR:—N. GIBLIN.

LECTURER:—G. J. CASSIDY.

DEMONSTRATOR:—H. E. BURKE.

The purpose of this course is to give the student an elementary knowledge of the whole subject of physiology with a more special knowledge of such aspects of the subject as bear more particularly on the practice of dentistry. A full course of lectures, extending over

one session, is given. In conjunction with the lecture course demonstrations bearing on physiology are given on patients in the hospitals.

Text-book:—Huxley's "Lessons in Elementary Physiology."

PROSTHETIC DENTISTRY

PROFESSOR:—GEORGE S. CAMERON.

ASSOCIATE PROFESSOR:—J. S. DOHAN.

The course in prosthetic dentistry will embrace lectures, illustrated by lantern slides, and practical work in the laboratory under the supervision of the demonstrator of technics. It will include the preparation of the mouth for dentures, impressions, and the properties of materials used in the construction of artificial dentures. The student will be required to construct the different forms commonly used. Attention is directed to the different functions to be performed by the denture in the restoration of the natural conditions as regards mastication, enunciation and the restoring of the features. Fractures of the jaw will be discussed, and the construction of interdental splints, as recommended by the different authorities, is detailed.

Text-book:—Wilson.

PROSTHETIC TREATMENT OF CLEFT PALATE

LECTURER:—OLIVER MARTIN.

Associated with the Department of Prosthetic Dentistry, a short practical course on the prosthetic treatment of cleft palate will be given at the Hospital Clinic, in which the students take an active part under direct supervision of the instructor.

CLINICAL INSTRUCTION

Clinical instruction is given in the Operating Theatre and Out-Patient Department, and in the Dental Clinic of the Montreal General Hospital. Abundant opportunity is afforded in this institution for the study of diseased conditions of the mouth and jaws, and for watching operations in these regions. The Dental Clinic, established twelve years ago by the Hospital authorities, proved a success from the outset, and ample material for clinical study is now provided. Twenty thousand patients were treated at this clinic during the past session.

Students are required to attend the clinic every day during the Third and Fourth Years from nine to twelve o'clock and from one-thirty to five o'clock, except during such part of the time as may be taken up with lectures or other work of the University course. Instruction is given by Professor Thornton, Dental Surgeon in charge,

assisted by the Superintendent and a capable staff of demonstrators. Anæsthetics are administered by members of the resident staff of the Hospital, who give practical instruction in this most important branch. A nurse is also in attendance during clinic hours.

LIBRARY

In conjunction with the Medical Library, which contains all the standard text-books in the branches of the first two years in Dentistry, there is a splendid departmental library dealing exclusively with dental subjects. Students may consult any work of reference in the Library between 9 a.m. and 6 p.m.; Saturdays, 9 a.m. to 5 p.m.

MUSEUM

In connection with the Pathological Museum of the Medical Faculty there is a very good collection of plaster casts of deformities of the jaw, etc., and also a very large collection of teeth of all varieties. During the session the Dental Museum will be available for teaching purposes.

FACULTY OF MUSIC

The work of the Conservatorium of Music for the session 1925-26 will begin on September 21st, 1925, and will end on June 19th, 1926. It consists of three terms of eleven weeks each, **with an additional summer term of three weeks, viz.:—**

(a) September 21st to December 5th.
(b) December 7th to March 6th (Christmas vacation, December 20th to January 2nd inclusive).
(c) March 8th to May 29th (Easter vacation, April 1st to April 7th inclusive).
(d) May 29th to June 19th (short summer term).

Lectures, arranged in progressive courses, are offered as forming part of a connected curriculum, leading to Certificates and Diplomas, as well as to Degrees in Music in the University.

The lectures will begin in the first week of October, and extend over three terms of ten weeks each, viz.:—

(a) October 12th to December 19th.
(b) January 4th to March 13th.
(c) March 15th to May 22nd.

The examinations in Montreal for Certificates and Diplomas will be held towards the end of the third term, i.e., from May 17th to May 29th. The Theoretical Examinations which precede the Practical Local Examinations will be held on May 5th.

ADMISSION

Students of the Conservatorium will be admitted either as:—

Regular Students, taking an organized course, which includes individual instruction in a First and Second Subject, together with such classes and lectures as may be thought advisable by the Director, leading to the Diploma of Licentiate in Music, or the Degree of Bachelor of Music in the University.

Senior Partial Students, who, besides individual instruction in the one principal subject, take two classes. Instrumentalists will, at the discretion of the Director, be assigned to two of the following classes: Theory, Harmony, History, Form and Analysis, Ensemble Playing. Vocalists will be assigned to two of the following classes: Theory, Sight-Singing, Elocution and Diction, Choral Class.

Junior Partial Students, who, besides individual instruction in their principal study, will attend one lecture class. Lecture classes will be arranged so as not to interfere with students' school work.

Repertoire Students. Those who are unable for certain reasons to attend lecture classes, or who have been through the lecture courses during previous sessions, and wish to get advanced instruction in their principal study only.

Occasional Students. Those wishing to attend lectures or classes only, in such subjects as the following:—Theory, Harmony and Counterpoint, Composition and Orchestration, History and Aesthetics, Acoustics, Vocal Physiology, Orchestral class, String Ensemble class, Operatic class, Elocution class.

CONSERVATORIUM REGULATIONS

1. Fees will not be refunded, nor will the length of the term be extended on account of temporary absence. Absence from lessons caused by prolonged illness may be allowed for, provided the Secretary is notified and a Doctor's certificate presented.

2. No business matters can be arranged through the instructors, but must be transacted through the office.

3. Students cannot register for less than a term and must notify the Secretary, at least a week before the end of the term, if they wish to discontinue lessons, otherwise it is understood that lessons will be continued through the following term.

4. Any lessons missed in consequence of the instructor's absence will be made up at the mutual convenience of instructor and pupil. Lessons missed by students will be their loss, unless a Doctor's certificate is produced.

5. An attendance book is kept by each instructor, and the Secretary is notified of any irregularity of attendance or absence of pupils through serious illness.

6. Every partial student must attend at least two-thirds of the lecture classes in each term, or in default be charged the higher fee as a repertoire student.

7. Every student (except those attending schools) must, at the beginning of each session *either* produce a medical certificate from his or her medical attendant *or* be examined by the medical officer appointed by the University.

8. No student suffering from an infectious or contagious disease, or who is, in the opinion of a competent medical attendant, in any way brought into contact with any person infected with such disease, will be allowed to attend.

9. Students are required to be punctual at lessons, lectures, concerts and examinations.

10. Notices on the bulletin boards are official, and students are requested to pay due attention to such as may be posted there.

11. No change in course or teacher can be made without first obtaining the consent of the Director.

12. Students must take the sessional examinations (the form of such examinations to be decided by the Director) and be prepared for the same by the instructor or instructors to whom they are assigned.

13. Students wishing either to take part in any public musical performance, publish a composition, or accept a professional engagement, must first obtain the consent of the Director.

14. The name of each lecturer and the hours at which the classes are held will be posted on the notice boards.

15. None but registered students of the Conservatorium can take part in either recitals or concerts.

16. Visitors will not be allowed to be present during any lesson (class or private) except by permission.

17. The Director has the right to refuse or to cancel at any time the registration of any individual whose presence in the Conservatorium may appear detrimental to its interests.

18. Smoking within the building is absolutely prohibited.

REQUIREMENTS FOR DEGREES AND DIPLOMAS

(For Fees, see page 115.)

DEGREE OF DOCTOR OF MUSIC

Bachelors of Music of McGill University, after a lapse of a period of five years from the time of taking the Degree of Bachelor of Music, may proceed to the Degree of Doctor of Music, the requirements for which are a composition in extended form, such as an oratorio, opera or cantata. This exercise must have as its first number an introductory orchestral movement in the form of a concert overture, must contain some eight-part writing and fugal treatment, and must be scored for a full orchestra. If preferred, a candidate may present a composition scored for full orchestra in the form of a symphony, symphonic poem or tone poem occupying no less than forty minutes in performance. The University may, if it elects to do so, order the candidate to give a public performance of this original and unaided composition, when approved by the examiners, in some public building connected with the University. In addition, an examination in the higher forms of composition shall be necessary, together with a critical knowledge of the full scores of certain prescribed works.

Graduates of other Universities can, on payment of the necessary fees, be admitted "ad eundem" to the Degree of Mus. Bac., if they wish to proceed to the further degree of Mus. Doc., provided they secure permission to do so from the executive of the Faculty of Graduate Studies and Research.

Full particulars can be obtained from the Registrar of the University.

DEGREE OF BACHELOR OF MUSIC

All candidates for this degree must pass the following examinations:—

1. The Matriculation examination.
2. The First examination in Music (at the end of the first year).
3. The Second examination in Music (at the end of the second year).
4. The Final examination in Music (at the end of the third year).

A specimen set of papers for each of the three examinations in Music can be obtained from the Secretary, price 25c. each.

The Matriculation Examination

The Matriculation Examination is held yearly, in June and September, at McGill University and at various centres throughout the Dominion. Candidates for musical degrees will be examined in the following:

1. English (two papers).
2. History (one paper).
3. Two out of the following languages:—French, German, Latin, Italian, Spanish (two papers in each of the two languages chosen by the candidate).
4. Arithmetic or Algebra or Geometry (one paper).
5. Rudiments of Music (musical intervals, scales, clefs, time signatures, construction of chords, elementary harmony to chord of dominant seventh)—one paper. The paper set will be similar to that for the Senior Grade of the local examination in Music.

Further information with regard to this examination, and exemption therefrom through the possession of certain equivalent certificates, can be obtained from the Registrar of the University. Before being admitted to Undergraduate courses in Music, candidates must satisfy the Dean of the Faculty of Music that they are sufficiently advanced in their chief and second practical studies.

First Examination in Music

(a) Harmony in three and four parts.

(b) Counterpoint up to three parts.

(c) Form and analysis. Questions will be given on accent, cadence, metre, rhythm, phrasing, etc., and on form shown in the works of the classic composers.

(d) General outlines of musical history.

(e) Chief and second practical study. One of these may take the form of the composition of a song or songs, *or* a miniature suite for a solo instrument or any combination of instruments.

Second Examination in Music

(a) Harmony in not more than four parts.

(b) Counterpoint (strict and free) in not more than four parts.

(c) Canon in two parts and fugal exposition up to four parts.

(d) History of music from the 16th century to present day.

(e) Form and analysis. The candidate must show an intimate knowledge of a few compositions, the names of which will be supplied on application, at least three months before the date of examination.

(f) Elementary knowledge of acoustics or physiology of the voice.

(g) Chief and second practical study, *or,* instead of one of these, the composition of:—

(1) A movement in sonata form for pianoforte (or piano and violin, or any other combination),

or

(2) A choral movement with independent accompaniment,

or

(3) A suite for strings.

The possession of the Diploma of Licentiate of Music obtained either under Class I. or Class III. from McGill University exempts candidates from the necessity of taking the First and Second Examinations for Mus. Bac., and, accordingly, candidates can proceed direct to the Final Examinations, provided that they have matriculated.

Final Examination in Music

(a) Harmony up to five parts.
(b) Counterpoint (strict and free) up to five parts.
(c) Double Counterpoint in 8ve, 10th, and 12th.
(d) Canon and fugue in three and four parts.
(e) History of music from the earliest time to the present.

(f) Form and analysis. Knowledge will be required of such works as the following:—Bach's 48 Preludes and Fugues; Beethoven's Pianoforte Sonatas; Schubert's, Schumann's, and Brahms' Songs; Mendelssohn's Psalms and such Oratorios as Elijah and St. Paul; Symphonies and Overtures by Mozart, Beethoven, Brahms, Mendelssohn. Candidates should, at least three months before the Examinations, submit a list of works for the approval of the Examining Board which, at its discretion, may add or substitute others.

(g) Instrumentation. A knowledge of the compass and capabilities of all instruments in the modern orchestra and the scoring of a given passage in a given time; also the reading at sight of a short excerpt from an easy score of a classic composer.

(h) Chief and second practical study or, in lieu of both of these, a composition can be sent in by the candidate, containing four-part chorus, a solo or duet, an unaccompanied quartette and a four-part fugue. The whole work (except the quartette) must be scored for stringed instruments in such a way as to show considerable independence between voices and instruments. If preferred, this composition can take the form of a string quartette containing not less than three movements.

REGULATIONS FOR DIPLOMA OF LICENTIATE OF MUSIC

(For Fees, see page 115.)

Candidates may elect to be examined either in:—

Class 1—Theoretical Subjects and Composition, or

Class 2—Practical Subjects as Performers, or as

Class 3—Teachers in both Theory and Practice.

The following are the requirements of each branch:—

Class 1.—Theoretical Subjects and Composition

First Examination

(a) Advanced Rudiments, including Sight Reading and Ear Tests.

(b) Harmony in four parts up to and including chords of the ninth, passing notes and suspensions; also the Harmonization of a Melody.

(c) Counterpoint in two parts.

(d) Viva voce examination in rudimentary Composition and Extemporization.

N.B.—If candidates can produce certificates of having passed in the Highest Grade of the theoretical local examinations, they will be excused all but the last test, which can be taken at the same time as the second examination.

Second Examination

Requirements a, b, c and d, are the same as those for the First Examination for Mus. Bac. (See page 19.)

(e) Composition of a song (or two short songs) or a miniature suite for piano (or piano and violin, or any other combination). The MS. should be sent in at least a month before the date of examination to the Secretary of the Examining Board, McGill Conservatorium of Music, Montreal.

Third Examination

Requirements a, b, c, d and e are the same as those of the Second Examination for Mus. Bac. (See page 19.)

(f) Practical work at pianoforte or organ. The requirements are those of the Senior Grade of the practical local examinations. Exemption from this test may be claimed if candidates possess certificates showing that they have passed that examination.

(g) Composition of (1) a movement in Sonata form (for either pianoforte, or organ, or violin and pianoforte, or any other combination); or (2) a Chorus with independent accompaniment; or (3) a Suite for Strings. This should be sent in beforehand.

Class 2.—Practical Subjects as Performers

First Examination

(a) Rudiments of Music, including Sight Reading and Ear Tests.

(b) Easy Transposition Tests (for instrumentalists only).

(c) Diction in respect of Modern Languages (for singers only).

(d) Practical work either as Vocalist or Instrumentalist, in Principal Study, the requirements of which will be those of the Highest Grade of the practical local examinations.

Second Examination (Semi-Final)

The requirements for candidates whose chief study is either pianoforte, or violin, or violoncello, or organ, or singing, will be found under separate headings.

PIANOFORTE

(No written examination.)

1. *Scales.*
   Major, minor (both forms) and chromatic scales at the distance of 8ve, 3rd, and 6th; also in double 3rds and double 8ves.
   The candidate must be prepared to play all the above-mentioned scales in all keys, in either similar or contrary motion, beginning on either the highest or lowest notes, and with either legato or staccato touch.
2. *Arpeggios.*
   Common chords, dominant and diminished 7ths, with inversions and with hands either an 8ve, 3rd, 6th, or 10th apart, in similar and contrary motion, also in double octaves, legato and staccato.
3. *Reading at Sight.*
4. *Transposition.*
   Of a short passage, a semi-tone above or below.
5. *Performance.*
   (a) One of the more difficult of the 48 Preludes and Fugues, or, Part of a Suite or Concerto ..... J. S. BACH

   (b) One of the more difficult Etudes, Op. 100 Bk. I ..... KESSLER
   or
   Etude No. 5 ..... PAGANINI-LISZT
   (c) Sonata Op. 22 or Op. 26 or Op. 28 (D major) ..... BEETHOVEN
   (d) Any one of the Novellettes ..... SCHUMANN
   or
   Toccata and Clair de Lune ..... DEBUSSY
   or
   Any one of the following Etudes, Op. 10.
   Nos. 4, 5. Op. 25, No. 16 ..... CHOPIN
   or
   Any one of the Nocturnes ..... CHOPIN
   (e) A piece of the candidate's own choice.
   Questions will be asked on the general outlines of form shown in the pieces and also on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLIN

(No written examination.)

1. *Scales.*

C major in thirds, sixths, and octaves, one note to each bow, through two octaves. Also any of the ordinary scales through three octaves with various bowings. Chromatic scale starting from F in the first position (D string) through two octaves.

2. *Arpeggios.*

All major and minor common chords, dominant 7ths, and diminished 7ths in three octaves. No. 7 from Sevçik Violin School, Op. 1, Part III, may be presented for this test.

3. *Reading at Sight.*

4. *Performance.*

Candidates must prepare any two Etudes from each of the following composers:—Kreutzer, Fiorillo, Rovelli, Gavinies, and Rode, and also play the first movement of No. 22, Concerta, Viotti, or a first movement from any one of the Spohr Concertos.

5. *Questions.*

Questions will be asked on the general outlines of form shown in the pieces, and also a few on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLONCELLO

(No written examination.)

1. *Scales.*

Major, minor (melodic form), and chromatic scales in all keys.

2. *Arpeggios.*

Studies Nos. 10 and 15 J. L. Duport.

3. *Reading at Sight.*

4. *Performance.*

(a) Suite No. 2.....J. S. Bach

(b) Sonata (last two movements).....Brahms

or

Sonata No. 1 (First Movement).....BEETHOVEN

or

Sonata No. 1 (First Movement.....MENDELSSOHN

(c) Also any two of the following pieces:—

Rondo .....BOCCHERINI

La Serenata (published by Schirmer).....V. HERBERT

Le Soir (published by Leduc).....L. VIERNE

5. *Questions.*

Questions will be asked on the general outlines of form shown in the pieces, and also a few on the general outlines of musical history. Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLA, DOUBLE-BASS, HARP AND WIND INSTRUMENTS

Requirements will be forwarded to candidates on application to the Secretary, 323 Sherbrooke Street West, Montreal.

ORGAN

(No written examination.)

(a) Manuals only (with both hands).

(b) Pedals only.

(c) One manual only with pedals, at varying degrees of speed and beginning with either the highest or lowest note.

In the case of (a) and (c) contrary motion may be required.

2. *Arpeggios.*

(a) For pedals through two 8ves; common chords, major and minor, in keys of C, D flat, D, E flat, E, and F.

(b) One hand and pedals combined, in contrary motion.

3. *Reading at Sight.*

4. *Transposition.*

Of a short passage, a semitone above or below.

5. *Performance.*

Prelude and Fugue in G major.....J. S. BACH
(Vol. VIII, Bridge and Higgs' Edition)

Elegie and Toccata-Prelude.....BAIRSTOW
(Published by Augener)

or

Three Rhapsodies No. 2 or No. 3.....H. HOWELLS
(Published by Augener)

6. *Questions.*

Questions will be asked on the general outlines of form shown in the pieces, and also a few on the general outlines of musical history. Candidates must be prepared to answer any advanced questions on rudiments of music.

SINGING

(No written examination.)

1. *Scales and Technical Exercises.*

   Major, minor, and chromatic scales at varying degrees of speed. (For examples, see Randegger's Singing Primer, pages 38, 41 and 48.) Also any six of the technical exercises given on pages 161 to 169 of the same work, selected according to voice.

2. *Arpeggios.*

   See Randegger's Singing Primer, pages 102, 104 and 107.

3. *Reading at Sight.*

4. *Prepared Work.*

   Studies.

   Soprano or Tenor—Any two from No. 1 to No. 17 Fourth Series.
   Part 1. 30 Solfeggios.....VITTORIO RICCI
   Alto or Bass—Any two from No. 1 to No. 17 Fourth Series.
   Part II. 30 Solfeggios.....VITTORIO RICCI
   Medium Voices—Any two from No. 1 to No. 17 Fourth Series.
   Part III. 30 Solfeggios.....VITTORIO RICCI

   The selection of the pieces to be rendered in this examination is left to the candidates, who must, however, choose music of the following character:—

   (a) One or two specimens of Recitative.
   (b) Two solos from an Oratorio or Oratorios.

   or

   Two Solos from an Opera or Operas.

   (c) One song by any of the following composers:—SCHUMANN, SCHUBERT, FRANZ, BRAHMS, LOEWE, PARRY, ELGAR, WOLF, HENSCHELL, STANFORD, RONALD, SCOTT, IRELAND.
   (d) One song by any of the following composers:—GOUNOD, MASSENET, GERMAN, BALAKIREFF, LISZT, MALLINSON, MACDOWELL, GRIEG, HAHN, SIBELIUS.
   (e) One or two specimens of Folk Songs.

6. *Questions.*

   Questions may be asked as to the style of the pieces selected and the modulations or keys through which the music passes, etc.
   Questions may be asked on the more advanced rudiments of music.

Third Examination (Final)

The requirements for candidates whose chief study is either Pianoforte, or Violin, or Violoncello, or Organ, or Singing, will be found under separate headings. There is no written examination.

PIANOFORTE

1. *Transposition Test.*

   The transposition of a passage a tone above or below.

2. *Sight Reading Test.*

3. *Questions.*

   Questions will be asked on musical history from the 16th century to the present day.

4. *Performance.*

   (a) Prelude and Fugue C sharp major Bk. 1 or
   A flat major Bk. 2.....J. S. BACH

   or

   Toccata in G major.....J. S. BACH

   or

   Prelude and Fugue in A minor.....J. S. BACH
   (Arranged by Max Vogrich)

   or

   Prelude and Fugue in E minor.....MENDELSSOHN

   (b) Any two of the following Etudes, Op. 10, Nos. 1, 2, 7, 8, 9.
   Op. 25, No. 6.....CHOPIN

   or

   Two contrasted studies from Bks. 2 or 3, Op. 100...KESSLER

   or

   Etude (on false notes).....RUBINSTEIN

   or

   Any one of 6 Etudes, Op. 111 Book 2.....SAINT-SAENS

   (c) Sonata Op. 109, or Op. 57 or Op. 31 No. 3.....BEETHOVEN

   or

   A Concerto by a classical or modern composer.

   (d) Etudes Symphoniques (Tema and any 3 Etudes)..SCHUMANN

   or

   Sonata in E minor.....SJÖGREN

   or

   Intermezzi (any two).....BRAHMS

   or

   Theme and Variations Op. 16 No. 3.....PADEREWSKI

   (e) Lotus Land.....CYRIL SCOTT

   or

   Slavonic Dances Op. 46 (any two).....DVORÀK

   or

   Reflets dans l'eau.....DEBUSSY

   or

   Ballade Op. 52.....CHOPIN

(f) Au bord d'une source
Tarantelle ..... LISZT

or

Danse des Elfes..... SAPELNIKOFF

(g) A piece of the candidate's own choice.

Note.—Candidates must be prepared to play some, if not all, of these from memory.

5. *Short Examination in Second Study.*
Certificates gained in any of the three highest grades of the local practical examinations will exempt candidates from this test, whether the subject chosen is Organ or Violin, or Violoncello, or Singing.

VIOLIN

1. *Sight Reading Test.*
2. *Questions.*
Questions will be asked on Musical History from the 16th century to the present day.
3. *Performance.*
(a) Any one of the ten Sonatas..... BEETHOVEN
(For Violin and Pianoforte.)
And any one movement of either of the two Sonatas. J. IRELAND
(b) Any one of the following Concertos may be selected by candidate:—
BEETHOVEN, MENDELSSOHN, ERNST in F sharp minor, PAGANINI, VIEUXTEMPS, TSCHAIKOWSKY, SAINT-SAENS in B minor, BRAHMS, ELGAR, WIENIAWSKI, BRUCH, LALO.
(c) Romance in E minor..... SINDING
Havannaise ..... SAINT-SAËNS
Rhapsodie Piedmontèse..... SINIGAGLIA
4. *Short Examination in Second Study* (which must be the Pianoforte).
Certificates gained in any one of the three highest grades of the local practical examinations in pianoforte will exempt candidates from this test.

VIOLONCELLO

1. *Reading at Sight.*
2. *Questions.*
Questions will be asked on Musical History from the 16th century to the present day.
3. *Performance.*
Sonata in A major (1st movement)..... BEETHOVEN
Serenade-Waltz ..... HERBERT SHARP
Spanish Nocturne..... E. GOOSENS
(Pub. in one book by Hawkes & Son.)

Concerto in A minor.....SAINT-SAËNS
Sonata .....GRIEG
A la fontaine (Fisher Edition).....DAVIDOFF

4. *Short Examination in Second Study* (which must be the Pianoforte). Certificates gained in any one of the three highest grades of the local practical examinations will exempt candidates from this test.

ORGAN

1. *Transposition and Modulation Tests.*

   The transposition of a passage into another key not exceeding a tone above or below. Modulation.—Candidates are advised to make their modulations musically and not only mathematically correct.

2. *Sight Reading Test.*

3. *Questions.*

   Questions will be asked on Musical History from the 16th century to the present day.

4. *Performance.*

   Of one piece from each of the following lists:—

   (a) Sonata in E flat.....BACH
   Prelude and Fugue in D major.....BACH
   Introduction and Passacaglia.....MAX REGER
   Introduction, Passacaglia and Fugue.....HEALEY WILLAN (Published by Ditson)
   Fantasia in F minor.....MOZART

   (b) Sonata in D minor.....RHEINBERGER
   Sonata in E minor.....MERKEL
   Sonata in C sharp minor.....HARWOOD
   Sonata No. 4 in B flat major.....MENDELSSOHN

   (c) Postlude in E flat.....GUILMANT
   Dithryamb .....HARWOOD
   Fantasia in E flat.....SAINT-SAËNS
   Symphony No. 5 or No. 6, any two movements.....WIDOR

5. *Short Extemporization on a Given Theme.*
   Optional test.

6. *Short Examination in Second Study.*

   Certificates gained in any one of the three highest grades of the local practical examinations will exempt candidates from this test, whether the subject chosen is Pianoforte, or Violin, or Violoncello, or Singing.

SINGING

1. *Performance.*
   (a) Studies:
   Soprano or Tenor—Any two from No. 18 to the end of the Fourth Series, Part 1, of 30 Solfeggios.....Vittorio Ricci
   Alto or Bass—Any two from No. 18 to the end of the Fourth Series Part II, of 30 Solfeggios.....Vittori Ricci
   Medium Voices—Any two from No. 18 to the end of the Fourth Series Part III, of 39 Solfeggios.....Vittorio Ricci
   (b) The solo work from part of an Opera (an act or scene), or the solo work from a whole Oratorio.
   (c) Songs in various languages to exemplify proficiency in diction.
2. *Sight Reading Test.*
3. *Questions* on Musical History from the 16th century to the present day.
6. *Chief Study.*

The studies by Vittorio Ricci must be prepared by all candidates, but as types of voices and capabilities of vocalists differ so much, it is impossible to satisfactorily specify other work on which any individual candidate shall be examined. The Examining Board will be prepared to accept in the Final Examination any works on which a correct judgment can be formed as to whether the candidate shall, after examination, be awarded the Diploma:—

(a) As soloist for Concert Work only.
(b) As soloist for Light Opera.
(c) As soloist for Grand Opera.
(d) As soloist for Oratorio.
(e) As soloist for a combination of any of these.

Candidates should, after passing the Second Examination, submit to the Board of Examiners, through the Secretary, a list of works which they propose to present for the Final Examination.

Second Study (which must be the Pianoforte).

Certificates gained in any one of the three highest grades of the local practical examinations for Pianoforte will exempt candidates from this test.

The ability of candidates to play their own accompaniments on the pianoforte to the vocal work prepared by them for the examination, together with the reading of a song accompanied at first sight, will be accepted as second study.

CLASS 3.—TEACHERS' EXAMINATION (THEORY AND PRACTICE).

First Examination

(Partly written and partly viva voce.)

1. Advanced Rudiments.

2. A knowledge of harmony up to chords of the 7th. Analysis of given chords or passages, and harmonization of an easy melody and figured bass.
3. Chief Study.

   Candidates will be expected to show sufficient executive ability to perform the technical work, studies, and pieces contained in the list for the current year's local examination in the Highest Grade. (Total exemption from this examination can be claimed if candidates can produce certificates of having previously passed the Senior Grade, theoretical, and the Highest Grade, practical, of the local examinations.)

Second Examination (Semi-Final)

(Partly written and partly viva voce.)

1. Harmony in three and four parts up to chords of the 9th, including suspensions and use of passing notes.
2. Counterpoint in two parts.
3. General outlines of Musical History.
4. The principles of Elementary Form and Analysis.
5. Chief Study.

   The requirements for this will be the same as for the Semi-Final Performers' Licentiate (see pages 21 to 26).
6. Second Study.

   The requirements will be similar to those of the Senior Grade of the local examinations.

   If the candidate's chief study is Singing, Pianoforte Accompaniment will be accepted as second subject.

Third Examination (Final)

(Written Examination.)

1. Harmony and Counterpoint in not more than four parts.
2. History of Music from the 16th century to the present day.
3. Form and Analysis.
4. Some acquaintance with the principles of the Physiology of the Voice or of Acoustics.
5. A paper on the Art of Teaching of the candidate's chief subject. Candidates must write a paper, which should be sent at least a week before the examinations, dealing with technical difficulties met with in teaching, and how to overcome them, also giving a graduated list of studies and pieces best adapted for the development of this branch of musical study. The paper must be the unaided work of the candidate, and be accompanied by a declaration to that effect.

Viva Voce Examination

Requirements will be found under a separate heading corresponding to the candidate's chief subject.

PIANOFORTE

1. (a) To demonstrate method of instruction as regards posture, finger-training, wrist and arm action, etc.
   (b) To illustrate gradations of touch.
   (c) To differentiate between mechanical and æsthetic expression.
   (d) To explain the principles of fingering, and, if required, to finger passages.
   (e) To distinguish between use and misuse of pedals.
   (f) To illustrate good part playing.

   If thought necessary by the examiner a student (not a pupil of the candidate) will be in attendance, so that the candidate may more easily and effectually demonstrate his or her ability to deal in a practical manner with the above points, and any others which may occur.

2. Candidates must be prepared to play the following:—

   (a) English Suite, No. 11, in A minor, or No. 4 or Prelude and Fugue No. 15 in G ..... BACH

   (b) Sonata. Op. 53, or Op. 57 ..... BEETHOVEN

   (c) Humoresque, or Carneval ..... SCHUMANN

   (d) Any one of the Etudes ..... CHOPIN
   and Rhapsodie Hongroise No. 13 or 14 ..... LISZT

   (e) A piece of the candidate's own choice by a modern English, French or Russian Composer.

3. Sight Reading Test.

VIOLIN

1. To demonstrate method of finger-training and bowing, posture, and fingering, also to finger and bow certain passages, if required.
2. With a student in attendance (who must not be a pupil of the candidate), to give that student a specimen lesson, correcting, if necessary, any errors in bowing, intonation, posture, fingering, etc., and to answer questions and offer suggestions on the work after the student has retired.
3. To differentiate between mechanical and æsthetic expression.
4. To show ability to accompany on the pianoforte.
5. Candidates must be prepared to play any two Studies chosen by themselves from each of the following:—KREUTZER, FIORILLO, RODE, ROVELLI and GAVINES.

6. Pieces.

First movement of any of the ten Sonatas for Violin and Pianoforte ..... BEETHOVEN

La Folia ..... CORELLI-LEONARD

Concerto:

Any of the following:—BEETHOVEN, MENDELSSOHN, ERNST in F sharp, PAGANINI, VIEUXTEMPS, TSCHAIKOWSKI, SAINT-SAËNS in B minor, BRAHMS, WIENIAWSKI.

Romance in E minor ..... SINDING

or

Havannaise ..... SAINT-SAËNS

or

Rhapsodie Piedmontèse ..... SINIGAGLIA

7. Sight Reading Test.

VIOLONCELLO

See under Violin for requirements 1, 2, 3, 4 and 7.

Candidates must be prepared to play:

Nos. 11, 16 and 20 studies ..... DUPORT

Any one of the five Sonatas (selected by the candidate) ..... BEETHOVEN

To show a general knowledge of the Six Suites ..... J. S. BACH

Also, "A la Source," Op. 20, No. 2 ..... DAVIDOFF

Romance ..... WAGNER-POPPER

ORGAN

1. To demonstrate method of instruction by means of a specimen lesson given to a student (not a pupil of the candidate) for overcoming difficulties in pedal technique, clear part playing, independence of hands and feet, position of body, stop management, etc.
2. To answer questions and offer suggestions after the student has retired as to the improvements which may be necessary.
3. To answer questions as to the causes of difference of tone between the various stops.
4. To explain the principles of pedalling and mark passages submitted to candidates for that purpose.
5. To be prepared to play the following pieces:—
   A Sonata by Bach, also a Sonata by either Mendelssohn or Rheinberger or Merkel, and a piece by a modern composer selected by the candidate.
6. Sight Reading Test.
7. To extemporize and transpose.

SINGING

1. To demonstrate method of instruction by means of a specimen lesson given to a student (not a pupil of the candidate) in proper methods of breathing, tone, attack, unevenness of tone, intonation, expression, overcoming of awkward breaks, resonance, facial expression and posture.
2. To make a report and offer suggestions after the student has retired.
3. In passages given by the examiner, to phrase or put in breath marks.
4. Candidates must be prepared to give illustrations of Recitative, Solo singing in Opera or Oratorio, and to sing one song of any one composer in each of the following three groups:—

   (a) BACH, HANDEL, MOZART, BEETHOVEN, MENDELSSOHN, SCHUBERT, SCHUMANN.

   (b) FRANZ, BRAHMS, LOEWE, WOLF, STRAUSS, PARRY, ELGAR.

   (c) GOUNOD, MASSENET, GERMAN, BALAKIREFF, LISZT, MALLINSON, GRIEG, HAHN, and DEBUSSY.

   To read (at the pianoforte) a simple accompaniment at sight, and also transpose within the limits of a major second above or below.

EXAMINATION FOR CERTIFICATE SHOWING CANDIDATE'S FITNESS AS MUSIC INSTRUCTOR FOR CLASS WORK IN THE ELEMENTARY SCHOOLS

Fee $6.00

THEORETICAL

The examination will be in two parts: (a) Written; (b) Viva Voce.

In the written part of the examination a paper will be given dealing with the general questions on the teaching of class singing in an elementary school.

The paper will be divided into four parts: (a) Voice Training; (b) How to teach Sight Singing in the Movable Doh System, using Solfa syllables only, and on its application to the staff notation; (c) Ear Training; (d) The teaching of songs.

As regards (b) emphasis will be laid on the mental effect produced when teaching tune, and on the use of time names when teaching rhythm in both notations.

The following text-books are recommended:—

"Voice Culture," Part I; Chaps. 1-3 inclusive.....BATES
(Published by Novello.)

"The School Music Teacher," Chaps. 1-7 inclusive and Appendices II and III (published by Curwen).....EVANS and MCNAUGHT

PRACTICAL (ELEMENTARY)

1. Sight Singing.
   Two tests will be given, one in Solfa syllables only and one in Staff Notation, containing leaps to any note of the diatonic scale, with a transition to either 1st sharp (dominant) or 1st flat (subdominant) key, and containing chromatic notes introduced stepwise. Only the following divisions of the beat will be used, half-beat, three-quarters and a quarter, with some sustained notes. In Staff only the following time-signatures will be used, 2/4, 3/4, 4/4, 6/8. One of the tests will be in the minor mode, containing the sharpened sixth and seventh. (Not more than three attempts will be allowed, and the last time the test will be sung to la.)
2. Time.
   Two tests will be given, one to Solfa syllables, and one in Staff Notation, to be sung first to time-names, and then to a monotone. (Two attempts allowed.)
   In 2/4, 3/4 and 4/4 time (two, three and four pulse measure).

The beat may be divided into halves, triplets, or any division containing one or two quarters. In 6/8 time (six-pulse measure) the more minute divisions of the beat will not be given.

3. Ear Test.
   (a) The candidate will write down in either notation a short phrase of not more than six notes. The name of the key will be given and the tonic chord (d.m.s.) sung or played each time.
   (b) The time names of a short passage will be asked and the passages must be written down in either notation. The tempo will be given. (Two attempts allowed.)
4. Candidates must be prepared to write on a black-board, as for a class, a short sight-singing test in both notations.

EXAMINATION FOR CERTIFICATE SHOWING CANDIDATE'S FITNESS AS MUSIC INSTRUCTOR FOR CLASS WORK IN HIGH SCHOOL OR COLLEGIATE INSTITUTE

Fee $10.00

PART I (THEORETICAL)

A paper will be given demanding a more comprehensive knowledge of the methods and principles involved in the teaching of class singing. This paper will be divided into the same number of sections as the elementary paper, the following text-books being recommended for information:—

"Voice Culture," Part I. (published by Novello).....BATES

"The Singing Class Teacher" (published by Williams).FIELD HYDE

PART II (PRACTICAL).

1. Sight Singing.
   Two tests will be given, one in Solfa Notation only, and one in Staff Notation, containing more difficult leaps as well as leaps to chromatic notes with a transition to some more remote key. One of the tests will be in the minor mode containing a transition. (Not more than three attempts will be allowed and at the last attempt the test must be sung to la.)

2. Time.
   Two tests will be given, one to Solfa Syllables and one in Staff Notation, sung first to time-names and then to la. (Two attempts allowed.) The pulse will be divided into more minute divisions, and syncopation will be introduced.

3. Ear Test.
   (a) The candidate will write down in either notation, in time and tune, a short melody. The name of the key will be given and the tonic chord (d.m.s.) sung or played each time.
   (b) The time-names of a short passage will be asked and the passage must be then written down in either notation. The pulse will be more divided than in the elementary grade. The tempo will be given. (Two attempts allowed.)

4. Three school songs must be chosen and prepared by the candidate and sung to his or her own accompaniment. Two of the songs should be of the folk-song and one of the art-song type. Correct voice production and interpretation will be a necessity.

LOCAL CENTRE EXAMINATIONS IN MUSIC

Recognizing the necessity of helping to raise the standard of musical education in Canada, and at the same time to bring the influence of competent examiners to bear upon instruction, McGill University holds local examinations throughout the Dominion. In view of the fact that it grants Degrees in Music and a Diploma of Licentiate, the University extends its field of work by means of these local examinations, which are preparatory to those for Degrees and Diplomas.

The Examiners are appointed by the Board of Governors of the University, the Chairman of the Examining Board being Dr. Harry Crane Perrin, the Dean of the Faculty of Music and Director of the Conservatorium.

GENERAL REGULATIONS

1. All fees must be paid in advance direct to the Secretary of McGill University Conservatorium of Music, 323 Sherbrooke Street West, Montreal, who will supply forms of entry. These can also be obtained from the local representatives or local secretaries.

2. A local representative of McGill University will supervise the conduct of the theoretical examinations at each centre. All papers will be sent to McGill University itself, and, in the case of the local examinations, examined by a Board consisting of at least three examiners.

3. Every certificate gained by candidates in any of the public examinations will bear the imprimatur of McGill University.

4. The Principal of a school may arrange with the Secretary to send an examiner to report on the musical education gained at the school. No individual certificates will be awarded in this case, but merely a collective detailed report drawn up by the examiner and sent to the Principal of the school. (See page 397.)

5. Similiar arrangements may be made with regard to Class Singing. (See page 397.)

6. In case of a candidate being prevented by serious illness from attending any examination, the Secretary is authorized, on receipt of a medical certificate, which must, however, reach him at least five days before such examination, to transfer a candidate to the next examination without further fee.

7. As an additional assurance of fair treatment of every candidate, two examiners will be present at each examination in practical subjects throughout the Dominion, wherever it is at all possible to arrange that such shall be the case. This must necessarily largely depend on the number of candidates presenting themselves for examination.

8. Examinations will be arranged by the Secretary when required, and new centres formed where not less than ten candidates are entered, provided the amount of fees is sufficient to meet the expenses incurred.

ADVICE TO TEACHERS AND CANDIDATES

1. Candidates are advised not to attempt too high a grade when first entering for the local examinations, which are arranged in a systematic course of progressive grades, beginning with the Lowest or Primary grade and leading on through the Diploma examination for Licentiate of Music to that for the Degree of Mus. Bac.

2. Teachers as well as candidates are urged to regard the particular studies and pieces selected for examination in any one grade as indicating the degree of difficulty, and not to confine their attention for a whole year to the preparation of two or three examination pieces.

3. In preparation, teachers and pupils should use the music of the lower grades at the beginning of the winter, and should not begin too early with the actual grade book selected for examination at the end of the session. Lack of interest often ensues from the monotony entailed by candidates concentrating their whole attention on the examination book for too long a period.

4. Books for the last ten years, which contain well-assorted standard studies and pieces, will be found useful by teachers and pupils alike, whether for repertoire study, reading at sight, or analysis purposes. Price, 50c. per book, obtainable from the General Secretary.

REGULATIONS FOR LOCAL CENTRE EXAMINATIONS FOR CERTIFICATES

1. Theory examinations will be held throughout the Dominion on May 5th, 1926. In the case of candidates wishing to take an examination in a practical subject in the same year as the theoretical examination, the result of the latter will be communicated to them at least a week beforehand, so that, if successful in passing, they can proceed to the practical examination; if unsuccessful, they can still proceed to the practical examination, and if they satisfy the examiner or examiners in this, they must present themselves at a supplemental theoretical examination held later in the same year, which, if they pass, entitles them to receive the certificate for the practical examination. A special charge will be made for this supplemental examination. An alternative is provided for unsuccessful candidates in the May theoretical examinations; instead of presenting themselves for the ensuing practical examinations they are either entitled to a refund of the proportion of fee paid or to present themselves for the examination of the same grade the following year.

2. Practical examinations will be held during May and June, 1926.

3. For both theoretical and practical local examinations, forms of application, duly filled in by the candidate, and accompanied by the examination fee, MUST REACH THE SECRETARY IN MONTREAL ON OR BEFORE APRIL 1st, 1926.

4. Certificates will be awarded to successful candidates in both theoretical and practical subjects. They will be of two kinds in each grade: (a) Distinction; (b) Pass.

5. These certificates do not entitle the holders to append any letters to their names.

6. The maximum number of marks obtainable in each practical subject is 150, of which 100 entitles to a Pass and 130 to Distinction.

7. The maximum number of marks obtainable in each theoretical subject is 150, of which 100 entitles to a Pass and 130 to Distinction.

8. No special text-books are prescribed for theoretical examinations, and no particular method or style is specified for practical examinations. No particular edition is prescribed for pieces found in the syllabus, but for the convenience of teachers and candidates the University publishes, in separate books for each grade, the studies and pieces required for the Pianoforte Examinations, which can be obtained direct from the General Secretary or from the various local music dealers.

9. Candidates presenting a study or piece not prescribed by the current syllabus, run a risk of being disqualified.

10. Candidates entering for practical subjects must, in all grades except the two last (Elementary and Lowest), previously work a theory paper of the preceding lower grade during the same year or the preceding year.

11. Only one candidate at a time is allowed to be in the examination room for practical examinations.

12. The accompanist for all examinations, where one is needed, is allowed to be in the examination room only to accompany the songs and pieces.

13. The examiner's decision is final, and cannot be reconsidered.

14. The possession of certain certificates granted by other institutions may exempt the holder from the necessity of taking the Theoretical part of the Local Examinations. In making application for exemption the holder of such certificate must give explicit information to the General Secretary at least one month before the date of the examination, and be prepared to produce the original certificate if required.

15. The possession of certain certificates gained in the Local Examinations will entitle the holders to claim exemption from certain parts of the examinations for the Diploma of Licentiate in Music, should they at a later date decide to proceed to the higher examinations for that Diploma.

For other information regarding these examinations, see the Announcement of the Conservatorium of Music.

GENERAL SCHOOL EXAMINATION

On application to the General Secretary, McGill University Conservatorium of Music, Montreal, a general school examination can be arranged for any time during the year. The expense must, of course, vary according to the length of the railway journey the Examiner has to take. Due notice should, therefore, be given to the Secretary, so that he may be able to arrange the visit of the Examiner at a time when he is somewhere in the district, when the fee will be $20.00 for the first hour, and $10.00 for each succeeding hour. Not less than one hour can be arranged for. It is understood that no individual reports will be sent in on the work submitted, but only a general report made on each branch of music. (Class singing, referred to hereafter, may be taken as one branch of this examination.)

CLASS SINGING EXAMINATION

This examination is not necessarily confined to an examination at a school. Any teacher may enter a class for examination. A short general report will be rendered to the person who enters the class for examination, and the details of the report will be given on the following lines:—

Accuracy as to Notes, Rests, etc.
Maintenance of Pitch.
Balance of Parts and Grouping of Voices.
Articulation and Pronunciation.
Quality of Tone.
Expression and Conception of the works performed.
Sight Singing.
Performance of Vocal Exercises.

Requirements

1. The class must sing the vocal exercises prescribed, each group of the voices singing them separately in the keys best suited to the voices.*

2. At least two short compositions of different character and not in unison, must have been previously prepared.

3. Sight Singing from the staff notation.
Three short tests of varying difficulty will be given.

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*(These exercises can be obtained on separate sheets from the Secretary, McGill University Conservatorium of Music, price 25c. per dozen, post free, on receipt of remittance.)

FACULTY OF GRADUATE STUDIES AND RESEARCH

GENERAL STATEMENT

The Faculty of Graduate Studies and Research directs and controls all the courses leading to the higher degrees and recommends candidates for these degrees.

The members of the Faculty are the heads of departments and certain others on the staff of the University who offer and give *bona fide* courses of instruction of a graduate character and who superintend research work for the higher degrees. The members are appointed by the Board of Governors on the recommendation of the Principal. Other members of the staff, not members of the Faculty, who give graduate work of an approved character, have the rank of Associates of the Faculty.

The functions of the Faculty are *inter alia*:—

(1) To approve of the courses submitted by the heads of departments giving graduate instruction.

(2) To determine the conditions under which students may become candidates for higher degrees.

(3) To conduct examinations for such degrees.

The routine executive work of the Faculty, such as the admission and registration of students, the determination of the courses which they must take, the approval of the students' fulfilment of the requirements and the arrangements for the examinations are in charge of an Executive Committee appointed by the Faculty, which at stated intervals reports its proceedings to the Faculty as a whole.

ADMISSION

Advanced courses of instruction are offered to students who are graduates of any university of recognized standing. Admission to these advanced courses does not in itself imply candidacy for a higher degree.

REGISTRATION

Application for registration as a graduate student should be made to the Dean of the Faculty of Graduate Studies and Research. The application should be made in triplicate on special printed forms which may be obtained at the Dean's Office. This, when filled out, will give

the necessary information with reference to the degrees held by the candidate, the courses of undergraduate study which he has followed, and the courses of graduate study which he desires to pursue. With the approval of the department a student may register for a half course at the beginning of the second term. All applications for courses of graduate study must be filed with the Dean of this Faculty on or before October 10th of each year. The regular courses of instruction begin September 30th, 1925. As soon as the candidate's course has been approved by the Faculty, he must register without delay at the office of the University Registrar. He will not be given credit for attendance until he does so. Candidates whose course extends for more than one year must register at the commencement of each year of their course. If not registered at the beginning of the academic year as provided above the candidate shall not be eligible for the degree in the following June.

DEGREES

Graduate students may proceed to one or other of the following degrees:—Master of Arts, Master of Science, Master of Science in Agriculture, Doctor of Philosophy, Doctor of Literature, Doctor of Science, Doctor of Music.

RESIDENT GRADUATE STUDY

Every candidate for a higher degree is required to take at least one year of resident graduate study in McGill University. The unit of student work in this Faculty is one lecture hour per week for the session (i.e. the academic year). For purposes of finding an approximate equation covering the different recognized classes of work, one hour of seminar, colloquium or tutorial work is regarded as equal to two hours of lecture work, two hours of laboratory work to one hour of lecture work, and one hour of approved department society work to one hour of lecture work. Each student in addition to his or her thesis requirements shall complete six units for the Master's degree, or first year in course for Ph.D., four units for the middle year and three units for the final year leading to the degree of Doctor of Philosophy. At least 50 per cent. of the instruction in the first year shall be in courses offered exclusively to graduate students. It is understood that the student may take any number of years he chooses more than the minimum in order to complete these requirements.

COURSES AT MACDONALD COLLEGE

Graduate students who are taking the major part of their work at Macdonald College, may go into residence there and can take, when required, other graduate courses given at the University.

WOMEN STUDENTS

Women Students registering in this Faculty are invited to call at the Royal Victoria College for information concerning the following:—

1. The Alumnæ Society of McGill University, for membership in which they are eligible.

2. The Monteregian Club, a Residential Club for women engaged in educational work, for membership in which they are eligible.

They can also obtain from the Secretary of the Royal Victoria College the addresses of boarding houses in Montreal, and they may, if they wish, make arrangements to obtain luncheon in the College.

REGULATIONS FOR THE DEGREE OF MASTER OF ARTS (M.A.)

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Arts is provided in the following departments of study which rank as "Subjects":—

Greek Language and Literature.
Latin Language and Literature.
Romance Languages and Literature.
Germanic Language and Literature.
English Language and Literature.
Oriental Languages.
Theological Studies (see paragraph 6).
Philosophy.
Psychology.
History.
Economics and Political Science.
Mathematics.
Sociology.

The requirements for the degree are as follows:—

(1) Candidates must hold the degree of B.A. or B.Sc. (in Arts) from McGill University, or its equivalent.

(2) One or two subjects may be taken.

(3) When two subjects are taken one of them shall be designated as the major subject and special attention shall be paid to it. It must be a subject which the candidate has already studied in his undergraduate course, and the work required in it will represent an attainment in knowledge far in advance of that required for the B.A. degree. The minor subject, if taken, must be a cognate subject and be approved by

the head of the major department. Not more than one-third of the candidate's time for the year shall be devoted to the minor. The course of study selected by the student must receive the approval in writing of the heads of the departments concerned and also of the Faculty of Graduate Studies and Research. The candidate shall pass an examination in each of the subjects in his course.

(4) The candidate shall also present a thesis on some topic connected with his major subject. The title of his thesis must have been previously submitted to the head of the department concerned and to the Faculty of Graduate Studies and Research for their approval in writing. The thesis must be in some measure a contribution to knowledge and must also be in good literary style.

(5) The thesis must be in the hands of the Dean of the Faculty of Graduate Studies and Research on or before April 30th, if the candidate wishes to present himself for the degree at the Convocation in May.

(6) *Theological Studies.* A selection from the courses set forth under the head of Theological Studies may be taken as fulfilling the requirements of a minor subject for the degree of Master of Arts.

REGULATIONS FOR THE DEGREE OF MASTER OF SCIENCE (M.Sc.)

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Science is provided in the following departments of study which rank as "Subjects":—

Mathematics.
Physics.
Engineering Physics.
Chemistry.
Biochemistry.
Botany.
Plant Pathology.
Zoology.
Entomology.
Anatomy.
Pathology.
Bacteriology.
Physiology.
Pharmacology.
Geology and Mineralogy.
Geodesy.
Thermodynamics and Theory of Heat Engines.
Theory of Elasticity, Strength of Materials and Theory of Structures.
Hydrodynamics and Hydraulics.
Electrical Engineering.
Theory of Machines and Machine Design.
Metallurgy.
Mining.

The requirements for the degree are as follows:—

(1) Candidates must hold the degree of B.A. or B.Sc. or B.S.A. from McGill University, or its equivalent.

(2) The course of study followed by the candidate shall be of an advanced character, being the equivalent of that required for the degree of M.A., and shall lie in the domain of pure or applied science. It may be selected from any one or (at the discretion of the head of the department in which the major subject is) two subjects included in the list given above. This course of study, which must be of a comprehensive character, must have been previously submitted to the head of the department and to the Faculty of Graduate Studies and Research and have received their approval in writing.

(3) The candidate shall also present a thesis on some subject connected with his course of study. The title of the thesis must have been previously submitted to the head of the department and to the Faculty of Graduate Studies and Research and have received their approval in writing. The thesis must be in some measure a contribution to knowledge and must also be written in good literary style.

(4) The thesis must be in the hands of the Dean of the Faculty of Graduate Studies and Research on or before April 30th, if the candidate wishes to present himself for the degree at the Convocation in May, except in the case of theses involving experimental work, when the time will be extended to May 15th. No thesis received after these dates will be accepted.

REGULATIONS FOR THE DEGREE OF MASTER OF SCIENCE IN AGRICULTURE (M.S.A.)

Agronomy must be taken as the major subject for this degree.

The requirements for the degree are as follows:—

(1) Candidates must hold the degree of B.S.A. from McGill University, or its equivalent.

(2) Candidates must take one year of resident graduate study at Macdonald College, Faculty of Agriculture, McGill University.

(3) One or two subjects may be taken.

(4) When two subjects are taken, one of them shall be designated as the major subject and special attention shall be paid to it. It must be a subject which the candidate has already studied in his undergraduate course, and the work required in it will represent an attainment in knowledge far in advance of that required for the B.S.A. degree. Not more than one-third of the candidate's time for the year shall be devoted to the minor subject. The candidate shall pass an examination in each of the subjects of his course.

(5) The course of study selected by the student must receive the approval, in writing, of the heads of the departments concerned and also of the Faculty of Graduate Studies and Research.

(6) The candidate shall also present a thesis on some topic connected with his major subject. The title of his thesis must have been previously submitted to the Faculty of Graduate Studies and Research and the head of the department concerned, and have received their approval in writing. The thesis must be a contribution to knowledge and must also be written in good literary style.

The thesis must be in the hands of the Dean of the Faculty of Graduate Studies and Research on or before April 30th, if the candidate wishes to present himself for the degree at the Convocation in May.

(7) Candidates for the M.S.A. degree who select agronomy may register in September or January. In the latter case they will be expected to remain in residence until the end of September. It is recommended that one summer be spent in the Agronomy Department, before or during the course, to allow for practical, field, laboratory and thesis work during the growing season.

REGULATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.)

(1) Candidates for the degree of Doctor of Philosophy must hold the degree of B.A. or B.Sc. or M.D. from McGill University, or its equivalent.

(2) They must follow a course of at least three years resident graduate study. Of these at least one must be at McGill University, preferably the final year. The other two may be spent at institutions approved by the Faculty of Graduate Studies.

(3) They must select one major subject and one or two minor subjects. The minor subjects or subject must be cognate to the major subject and must be approved by the head of the department in which the major is. Approximately one-quarter of their time shall be devoted to the minor or minors.

Courses leading to the degree of Doctor of Philosophy are offered in the following as major subjects:—

Bacteriology.
Botany.
Biochemistry.
Chemistry.
Pharmacology.
Physics.
Physiology.
Oriental Languages.

In special cases heads of departments may be able to provide courses in other subjects which will lead to this degree. Candidates, therefore, desiring to proceed to the degree of Doctor of Philosophy in other Departments than those mentioned above should make direct application to the Faculty of Graduate Studies and Research, asking whether courses in such subjects can be provided.

(4) The course of study which the candidate desires to follow must, before he enters upon it, have been submitted to the heads of the several departments concerned and to the Faculty of Graduate Studies and Research and have received their written approval.

(5) On December 14th of the second year every candidate must satisfy the Faculty of Graduate Studies and Research that he has a reading knowledge of both French and German. The examination shall be set by the Department in which the candidate is taking his major; the passages chosen will be typical of the literature of his major subject. The Departments of Germanic and Romance Languages will act as examiners.

(6) The first two years shall include instruction, training and direction in his field of study, with the view of giving the candidate a knowledge of his particular subject and its relation to cognate branches of learning, and of preparing him for independent investigation.

After the completion of the examination in languages and in his minor subject or subjects, a preliminary examination shall be held at the end of the second year of the course. This examination shall cover all graduate work previously taken by the candidate, including his prescribed reading, and may also include any work fundamental thereto. The candidate must show that he possesses a good general knowledge of the whole science or branch of learning which he has selected as his major subject. The examination shall be both written and oral.

The result of this examination will determine whether the candidate will be allowed to proceed to his degree. The final year is to be devoted chiefly to the preparation of his thesis or dissertation.

After his thesis has been received and approved, a special and more searching oral examination on the subject of his dissertation and subjects more intimately related to it will constitute his final examination. This will be conducted in the presence of a committee of at least four of the Faculty of Graduate Studies.

(7) The thesis for the Doctor's degree shall display original scholarship expressed in satisfactory literary form and be a distinct contribution to knowledge. The subject of this thesis must have been approved, in writing, by the head of the department in which

the major subject lies and also by the Faculty of Graduate Studies and Research, at least twelve months before the date of the final examination. If the candidate wishes to present himself for the degree at the Convocation in May, this thesis must be in the hands of the Dean of the Faculty of Graduate Studies and Research on or before April 30th, except in the case of theses involving experimental work, when the time will be extended to May 15th. No thesis received after these dates will be accepted.

One week before the Convocation at which the degree is to be conferred, a typewritten copy of the thesis, accompanied by a statement from the head of the department that the copy in the form submitted has been accepted, shall be filed in the office of the Dean of the Faculty of Graduate Studies and Research. This copy must be left there till one hundred printed copies have been deposited in the Library.

The candidate shall at the same time deliver to the Dean of the Faculty of Graduate Studies and Research a legal contract that he will furnish the Library with one hundred printed copies by a specified date. The publication furnished by him must be a separate print, containing only the thesis.

Upon recommendation of a department and the approval of the Faculty of Graduate Studies and Research, a briefer form of the thesis than that approved for the degree may be accepted in fulfilment of the publication requirement. This shall contain an account of the method followed in the investigation, an abstract of the evidence adduced and a full summary of the results obtained. Those who adopt the plan of submitting reprints of their papers shall submit to the Library two typewritten copies of the complete thesis and 300 copies of their published work on the subject.

REGULATIONS FOR THE DEGREE OF DOCTOR OF CIVIL LAW (D.C.L.)

Any person who has graduated as B.C.L. from McGill University may after seven years from such graduation proceed to the degree of Doctor of Civil Law, provided he has distinguished himself by eminent services in the domain of law, and provided he has written a thesis on a subject previously approved by the Faculty of Graduate Studies and Research, and that such thesis has been adjudged by that Faculty to be a valuable contribution to legal science. The candidate may, instead of a thesis, submit a published book or books dealing in a scientific way with some branch or branches of law. A very high standard is required for this degree, but it does not call for any resident graduate study in the University.

REGULATIONS FOR THE DEGREE OF DOCTOR OF LITERATURE (D.Litt.)

Bachelors of Arts of McGill University who are graduates of at least seven years' standing, and who have distinguished themselves by special research and learning in the domain of arts and literature, may submit their published works to the Faculty of Graduate Studies and Research and apply for the degree of Doctor of Literature. A very high standard is required for this degree, but it does not call for any resident graduate study at the University. Graduates of other universities are not eligible for this degree.

REGULATIONS FOR THE DEGREE OF DOCTOR OF SCIENCE (D.Sc.)

Bachelors of Arts, Bachelors of Science or Doctors of Medicine of McGill University, who are graduates in one or other of these Faculties of at least seven years' standing, and who have distinguished themselves by special research and learning in the domain of science, may submit their published works to the Faculty of Graduate Studies and Research and apply for the degree of Doctor of Science. A very high standard is required for this degree, but it does not call for any resident graduate study at the University. Graduates of other universities are not eligible for this degree.

REGULATIONS FOR THE DEGREE OF DOCTOR OF MUSIC (Mus.Doc.)

Bachelors of Music of McGill University, after the lapse of a period of seven years from the time of taking that degree, may proceed to the degree of Doctor of Music, the requirement for which is a composition in extended form, such as an oratorio, opera or cantata. This exercise must have as its first number an introductory orchestral movement in the usual concert overture form, and must contain eight-part writing and fugal treatment. It must be scored for a full orchestra. If preferred, a candidate may present a composition scored for orchestra in the form of a symphony, symphonic poem or tone poem, occupying not less than forty minutes in performance. In addition, an examination in the higher forms of composition shall be necessary, together with a critical knowledge of the full scores of certain prescribed works. This degree is open only to graduates of the Faculty of Music of McGill University.

REGULATIONS CONCERNING THESES

In the case of students who wish to graduate at the Spring Convocation, all theses for the degree of Master of Arts, and all those for the degrees of Master of Science and Doctor of Philosophy

—not involving experimental work—must be handed to the Dean of the Faculty of Graduate Studies and Research not later than April 30th.

All theses for the degree of Master of Science or of Doctor of Philosophy which do involve experimental work, as well as all theses for the degree of Master of Science in Agriculture, must be in the hands of the Dean not later than May 15th.

In the case of students who wish to graduate at the Fall Convocation, their theses must be in the hands of the Dean of the Faculty of Graduate Studies and Research not later than September 15th.

Owing to the fact that all theses submitted by successful candidates for higher degrees will be bound and placed in the Library, candidates for such degrees are advised that the Faculty of Graduate Studies and Research will henceforth require these to be prepared in a uniform manner and in accordance with the following specifications:—

(1) The paper is to be of uniform size, 8½ x 11 inches, and of substantial quality.

(2) The left-hand margin is to have a uniform width of about 1½ inches. Drawings larger than the prescribed page should be folded in the manner most suitable for binding.

(3) All these must be typewritten and **in duplicate**.

(4) No binding is to be employed, but the loose sheets must be placed in a manilla envelope in the order of their pagination.

In the case of candidates presenting themselves for the degree of Doctor of Science, Doctor of Literature or Doctor of Civil Law, two copies of the book or books—or for the degree of Doctor of Civil Law, should a thesis be substituted, two typewritten copies of the thesis—must be submitted to the Dean of the Faculty of Graduate Studies and Research not later than *February 15th* of the year in which the candidate desires to take the degree.

INTERCHANGE OF STUDENT TEACHERS

An arrangement has been made between the National Committee for the Training of Teachers, Scotland, and McGill University, for the reciprocal exchange of student teachers to commence with the college year, 1925-1926.

The students coming to McGill will be Honour Graduates in Arts or Science and probably also in Education. They may make a special study of Education or may take up any course leading to the degree of M.A.. M.Sc., or Ph.D. If they study for a higher degree, the period and conditions of study will be fixed by the Faculty of Graduate Studies and Research on the recommendation of the Head of the Department in which the work is to be carried on. They will be assisted for one year and possibly for two. Students who study Education will be called upon to furnish a detailed report on their work, in which case only one year's studentship will be allowed. Details of the teaching work will be arranged by the Dean of the School for Teachers.

Students going from McGill must be Bachelors of Arts, or Bachelors of Science in Arts, or Masters of Arts.

They will be assisted for one year and in special cases for two. The allowance will be $1,200 per annum.

They will be expected either to study for a higher degree or to make a detailed study of Scottish educational systems. In the latter case, only one year's studentship will be allowed.

A student teacher, holding an M.A. degree from McGill, may be able to obtain a Scottish Ph.D. in two years.

Applications must be sent to the Principal before May 1st. These must state:— (a) University qualifications; (b) Teaching experience; (c) Any general experience; (d) Whether the student proposes to study for a higher degree and, if so, for what degree and whether or not he requires one or two years' assistance.

COURSES OF GRADUATE STUDY

DEPARTMENT OF AGRONOMY

(Macdonald College)

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

ROBERT SUMMERBY:—*Professor of Agronomy.*

ASSOCIATES OF THE FACULTY.

ALEXANDER MCTAGGART:—*Assistant Professor of Agronomy.*

W. C. QUAYLE:—*Lecturer in Biometrics.*

COURSES FOR THE DEGREE OF MASTER OF SCIENCE IN AGRICULTURE

Candidates for the degree of Master of Science in Agriculture who take Agronomy as a major are expected to have had a good training in general Agronomy, Botany and Genetics.

Courses 1, 4, 7 and one other are required. The remaining work to fulfil the requirements for the M.S.A. degree may be chosen from other courses in Agronomy or in the cognate sciences. Those who have not had a training in Agronomy equivalent to undergraduate specialization will be expected to fulfil the requirements of the courses which they lack.

1. **Advanced Crop Production.** The fundamental principles of crop growth, and their relation to methods and practices of crop production. Two lectures for one term.

2. **Forage Crop Production.** Classification, adaptation, culture, uses and investigations.

(a) Hay and Pasture Crops. (b) Corn and Roots.
Two lectures and two laboratory periods for one term.

3. **Grain Crop Production.** Classification, adaptation, culture, uses, and investigations. One lecture and one laboratory period for two terms.

4. **Crop Breeding.** The underlying principles of plant breeding, methods of experimentation, and the application of biometric methods to agronomic investigations. One lecture and two laboratory periods for one term.

5. Forage Crop Breeding. The application of scientific principles to the problems of breeding; investigations, methods and technique employed.

(a) Hay and Pasture Crops. (b) Corn and Roots.

One lecture and one laboratory period for two terms.

6. Grain Crop Breeding. The application of scientific principles to the problems of breeding; investigations, methods and technique employed. Two lectures and two laboratory periods for one term.

7. Seminar. Fortnightly during the year.

8. Biometrics, The course is designed to teach the application of statistics to problems in Agronomy, Botany, Bacteriology and Genetics.

DEPARTMENT OF ANATOMY

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

S. ERNEST WHITNALL:—*Professor of Anatomy.*

ASSOCIATE OF THE FACULTY.

JAMES C. SIMPSON:—*Associate Professor of Histology and Embryology.*

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

1. Anatomy.

(a) Special course on the detailed structure of the ear, nose and throat (for specialists in Oto-Laryngology).

(b) Special course on the detailed structure of the orbit and eye (for specialists in Ophthalmology).

Both these courses include the histology and surgical anatomy of the regions noted, and facilities are afforded for practical dissection and operative work as far as may be possible. The courses consist of laboratory work, study of preparations in conjunction with selected works of reference, and followed by colloquia. Each course extends over two months with attendance of two hours a morning on two days a week by arrangement.

Professor S. E. Whitnall.

2. Histology.

(a) A course on the histology of the tissues and organs in human and mammalian types. 150 hours laboratory and 30 hours lecture work extending through the Session (six hours a week).

(b) A special advanced course in Dental Histology. 12 two-hour periods for 12 weeks, or by arrangement.
Professor J. C. Simpson.

(c) A course on Histological Technique; 3 two-hour periods a week for 30 weeks of laboratory work and colloquia.
Professor J. C. Simpson.

3. Embryology.

General course in Organogenesis. 60 hours of lectures and demonstrations; two periods a week.

4. Anthropology.

Instruction in the principles, aims and methods of Physical Anthropology. Colloquia and laboratory work. Times to be arranged.
Dr. I. M. Thompson.

DEPARTMENT OF BACTERIOLOGY

(Macdonald College)

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

FRANCIS CHARLES HARRISON:—*Principal, Dean of the Faculty of Agriculture and Professor of Bacteriology.*

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

Numbers 1 and 2, together with any one of numbers 3, 4, 5 or 6 of the courses set forth below.

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

All those set forth below, together with certain others in Pathogenic Bacteriology and Serology given in the Faculty of Medicine.

1. Cytology, Morphological Studies and Technique.

One lecture and four laboratory hours for one term.

2. General and special Technique, Glass Blowing, Photography and Photomicrography.

One lecture and four laboratory hours for one term.

3. Dairy Bacteriology. Technique, a comprehensive survey of the bacteria of milk and its products.

One lecture and six laboratory hours per week for one year; six colloquia.

4. Food Bacteriology. Technique, a general survey of the bacteria of food and a special study of a group of foods.

One lecture and six laboratory hours per week for one year; six colloquia.

5. Soil Bacteriology. Technique and special methods, a general and special study of the microbiology of the soil.

One lecture and six laboratory hours per week for one year; six colloquia.

6. Bacterial Diseases of Plants. Technique and special methods; bacterial plant diseases prevalent in Canada and the Northern United States.

One lecture and six laboratory hours per week for one year; six colloquia.

Prerequisites for students taking Bacteriology as their major subjects are:—At least one course in general bacteriology of a year's duration; chemistry (inorganic and organic), and physics. More chemistry, such as biochemistry and physical chemistry are advised. Students selecting soil bacteriology should have had previous courses in farm crops and soils. Students taking dairy bacteriology should have a good knowledge of dairy practice and the usual undergraduate courses.

Course 1 or 2 may be taken as a minor in a cognate course.

DEPARTMENT OF BIOCHEMISTRY

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

ARCHIBALD BYRON MACALLUM:—*Professor of Biochemistry.*

ASSOCIATE OF THE FACULTY.

S. W. BLISS:—*Assistant Professor of Biochemistry.*

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

Advanced lectures and laboratory work on the following:—

1. **General Biochemistry**.....Professor Macallum.
2. **The Chemistry of Animal Metabolism**. Professor Macallum.

These courses will involve about sixty lectures and about two hundred hours of laboratory work, the latter in addition to the research for the preparation of the dissertation for the degree.

Candidates who desire to proceed to the M.Sc. degree in biochemistry must have a good knowledge of chemistry (inorganic, organic and physical) and must have taken (or must take concurrently with the work for this degree) all the undergraduate work in Biochemistry.

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

The courses offered by the department, covering what will be required for Biochemistry as a major subject for the degree, will involve the extension of those listed above and also the following:—

1. **Organic Colloids in their Chemical and Physical Relations.**
2. **Laboratory Methods of Synthesis of a Number of Bio-organic Compounds.**
3. **Energy Transformations in the Animal and Vegetable Cells.**
4. **Problems of Biophysics.**
5. **Methods and Results in the Microchemistry of the Animal and Vegetable Cells.**
6. **Oxidation and Reduction in the Animal Cell.**

These courses will involve about one hundred lectures, to be given in the two later of the three years required for the degree. The candidate must attend and participate in the colloquia held weekly for graduate students in the department.

The requirements for registration for the degree of Ph.D., with Biochemistry as the major subject, are the same as those for the M.Sc.

DEPARTMENTS OF BOTANY

MEMBERS OF THE FACULTY OF GRADUATE STUDIES.

FRANCIS E. LLOYD:—*Professor of Botany.*

BERTRAM T. DICKSON:—*Professor of Botany (Macdonald College).*

ASSOCIATES OF THE FACULTY.

CARRIE M. DERICK:—*Professor of Morphological Botany.*

GEORGE W. SCARTH:—*Assistant Professor of Botany.*

J. G. COULSON:—*Lecturer in Botany (Macdonald College).*

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

1. **Embryology of the Spermatophyta.**
   4 laboratory hours, including conference.....Professor Lloyd.
2. **Taxonomy.** Critical Studies.
   4 laboratory hours.....Professor Lloyd.
3. **History of Botany.** Reading.
   4 hours, including conference.....Professor Derick.

4. **Plant Galls.**
   4 laboratory hours .....Professor Lloyd.
5. **Protoplasmic Studies.**
   4 laboratory hours .....Assistant Professor Scarth.
6. **Cytology.**
   4 laboratory hours .....Professor Lloyd.
7. **Morphology of the Angiosperms.**
   4 laboratory hours.....Professor Derick.
8. **Plant Physiology.** Repetitional Studies.
   8 laboratory hours.....Professor Lloyd.
   Assistant Professor Scarth.

Three courses having the approval of the Head of the Department must be taken.

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHHY

9. **Experimental Plant Morphology.** Problems and Research.
   1 lecture, 12 hours laboratory.....Professor Lloyd.
10. **Plant Physiology.** Problems and Research.
    (a) Cellular physiology; biophysics and biochemistry of the cell.
    (b) Growth, irritability and reproduction.
    (c) Nutrition and respiration.
    2 hours conference; 12 hours laboratory.....Professor Lloyd.
    Assistant Professor Scarth.
11. **Phytogenetics.**
    2 lectures; 12 hours laboratory.....Professor Derick.
12. **Phytopathology.**
    (a) Lectures and reading.
    (b) Experimental work.
    2 lectures; 12 hours laboratory.....Professor Derick.
13. **Colloquium**—Weekly.

This will be attended by candidates for the degree of M.Sc. also; they will give at least two presentations, while candidates for the degree of Ph.D. will give at least four.

14. **Journal Club**—Weekly.

In the second year leading to this degree, four approved courses must be taken.

Candidates should, except for special reasons, take chemistry or physics as a minor. For genetics, statistical methods are required.

Attendance at weekly colloquia and Journal Club meetings is required of all candidates for higher degrees. Presentation by candidates of the results of published research is also required.

The following courses are given at Macdonald College:—

The Graduate work given in this department is in the field of Plant Pathology and Mycology.

Candidates must have completed satisfactory undergraduate courses in plant morphology, physiology, taxonomy, histology and cytology. Specialists in Plant Pathology should possess a general knowledge of the fundamental practices in agronomy and horticulture.

15. History of Plant Pathology. One lecture per week for one term. Extra reading required.

16. Systematic Mycology. Two lectures and two laboratory periods per week. A detailed study dealing with taxonomy, morphology, etc.

(a) Myxomycetes and Phycomycetes. 1st term, 1925-26.

(b) Ascomycetes and Adelomycetes. 1st term, 1926-27.

(c) Basidiomycetes. 2nd term, 1926-27.

17. Advanced Plant Pathology. Detailed studies of plant diseases; culture and inoculation work; field and greenhouse tests in control measures, etc. Two lectures and two laboratory periods per week for two terms.

18. Physiology of the Fungi. Nutrient requirements; carbon sources in nutrition; nitrogen fixation; enzymes in nutrition; H-ion concentration; temperature, light and moisture conditions; chemotropism; phototropism; staling; spore germination conditions; biologic specialization; physiology of parasitism; symbiosis. Two lectures and two laboratory periods per week for one term.

19. Phytopathological Histology. A study of abnormal plant structures caused by myxomycetes, fungi, bacteria, insects, etc., preparation of slides, photomicrographs, etc. One lecture and two laboratory periods per week for one term.

20. Cytology of the Fungi. Studies of sexuality; nuclear phenomena; formation of sporangium, conidium, pycnidium, perithecium, etc.; origin of setae, cystidia, etc.; development of chlamydospores, sexual and asexual spores, etc. Two lectures and two laboratory periods per week for one term.

21. Special Technique. A course covering the principles of photography; the preparation of plates, prints, lantern slides, photomicrographs, etc.; the use of filters; enlarging, reproducing. Training

in glass-blowing may also be arranged. One lecture and four laboratory hours for one term.

22. Seminar. A course entailing reading, discussion, appreciation and criticism of research articles, monographs, etc., in the field of general botany, physiology, cytology, histology, morphology, ecology, taxonomy, genetics, mycology, pathology. Attention will be more especially directed to such articles as have application in plant pathology or mycology. One period per week.

The course leading to the degree of Master of Science given at Macdonald College consists of 15, 22, two of 16a, 16b, 16c, and one other.

Only two years of the course leading to the degree of Doctor of Philosophy are given at Macdonald College. During these two years the candidates must take all the courses listed above.

The third year for the degree of Doctor of Philosophy may be taken by arrangement at McGill University (Montreal) or at some other approved University.

DEPARTMENTS OF CHEMISTRY

MEMBERS OF THE FACULTY OF GRADUATE STUDIES.

R. F. RUTTAN:—*Macdonald Professor of Chemistry and Director of the Chemistry Department.*

J. F. SNELL:—*Professor of Chemistry (Macdonald College).*

F. M. G. JOHNSON:—*Professor of Inorganic Chemistry.*

OTTO MAASS:—*Professor of Physical Chemistry.*

G. S. WHITBY:—*Professor of Organic Chemistry.*

ASSOCIATE OF THE FACULTY.

W. H. HATCHER:—*Assistant Professor of Chemistry.*

COURSES FOR HIGHER DEGREES

***1. Advanced Organic.**
2 hrs. per week.....Dr. Whitby.

***2. Advanced Inorganic.**
2 hrs. per week.....Dr. Johnson.

***3. Advanced Physical.**
2 hrs. per week and 6 hrs. laboratory work.....Dr. Maass.

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*Courses open to Honours students in Arts, B.A. and B.Sc., and as alternatives for students in Chemical Engineering.

*4. **Colloid Chemistry.**
2 hrs. per week for second term.....Dr. Johnson.

*5. **Synthetical and Quantitative Organic Chemistry.**
Laboratory from 9 to 12 hrs. per week..Dr. Whitby and Staff.

*6. **Advanced Inorganic and Gas Analysis.**
9 to 12 hrs. per week.....Dr. Johnson and Staff.

7. **Groups of 4 or 5 Lectures on Special Fields of Chemistry.**
1 or 2 hrs. per week.....Senior Member of Staff.

8. **Colloquium.**
1 hr. per week.....Dr. Ruttan.

9. **Tutorial, Inorganic and Physical.**
1 hr. per week.....Drs. Johnson and Maass.

10. **Tutorial, Organic Chemistry.**
1 hr. per week.....Drs. Ruttan and Whitby.

11. **Chemical or Physical Society.**
1 hr. per week.

12. **Supervision of Special Reading, Assistance and Instruction in Research for Thesis.** Research in Organic Chemistry is directed by Drs. Ruttan, Whitby, MacLean and Hatcher; in Inorganic and Physical Chemistry by Drs. Johnson and Maass.

REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE.

1. Advanced courses in (a) Inorganic, (b) Organic, (c) Physical and (d) Colloidal Chemistry. (1 to 6.)

One or more of these courses are open to Honour students and Chemical Engineers. The subject matter of these should be covered on entrance to the Faculty, but few undergraduates take all these courses, therefore candidates in the Faculty of Graduate Studies and Research are allowed to carry two.

2. Colloquium, one per week. Each candidate gives one, and, if time permits, two papers on some recent advances in chemistry. Papers are suggested and criticized by some members of the senior staff. (8.)

3. Attendance at the weekly meetings of the Chemical and Physical Societies. (11.)

4. Special graduate lectures. (7.)

5. Special reading and regular conferences with some member of the senior staff to whom the candidate is assigned. Assistance

*Courses open to Honours students in Arts, B.A. and B.Sc., and as alternatives for students in Chemical Engineering.

and instruction is given regarding the technique and literature of the Master's thesis. (12.)

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY.

1. Many advanced courses given to undergraduates and graduates (see 1 to 6 above) cover different fields of chemistry each year. If the subject matter of a course be new to a graduate student, he should take this course.

2. Colloquium, for each of the three years, as above. (8.)

3. Attendance at Chemical and Physical Societies. (11); each candidate is expected to give one lecture during his course.

4. The graduate lectures (7) are not on the same subjects two years in succession. They are attended for three years.

5. Supervision of reading and regular conferences. (12.)

6. Tutorial classes. (9.)

7. Supervision and direction of research work by the member of the senior staff under whom the candidate is working. If the candidate is unable to suggest an acceptable piece of work, a special problem will be assigned to him.

The following courses are given at Macdonald College:—

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

Prerequisites:—Courses in inorganic, organic and analytical chemistry; training in qualitative and quantitative analysis; courses in physics.

*1. **Chemistry of soils and fertilizers.** Two lectures a week during the Fall term. Laboratory in analysis of soils and fertilizers. Hours for graduates variable. Supplementary reading.

*2. **Chemistry of Animal Nutrition.** Two lectures a week during the Spring term. Supplementary reading. Laboratory work in analysis of feeding stuffs and in physiological chemistry. Hours for graduates variable.

*3. **Chemistry of Insecticides and Fungicides.** Discussion of the composition of commercial insecticides and fungicides and of the chemical changes involved in the preparation of spraying mixture. One lecture a week during the Spring term.

*4. **Analysis of Insecticides and Fungicides.** Discussion of the methods employed in the analysis of insecticides and fungicides and of the chemical principles involved. One lecture

*These are also given as undergraduate courses.

a week during the Spring term. Laboratory practice in the analysis of commercial products. Hours for graduates variable.

*5. **Dairy Chemistry.** Two lectures a week during the Fall term. Laboratory practice in the analysis of milk and its products. Hours for graduates variable.

*6. **Food Chemistry.** Two lectures a week during the Spring term. Laboratory practice in food analysis. Hours for graduates variable.

7. **Tutorial in Physical Chemistry.** One hour a week.

8. **Tutorial in Organic Chemistry.** One hour a week for one term.

9. **Tutorial in Colloid Chemistry.** One hour per week for one term.

10. **Tutorial in Biochemistry.** One hour per week.

11. **Seminar.** One hour per week.

12. **Research.** Supervision of reading and experimental work in connection with thesis.

Graduates taking Chemistry as a major subject must take the equivalent of at least six lecture hours from courses 4 to 9 (inclusive) as set forth above.

DEPARTMENT OF CIVIL ENGINEERING AND APPLIED MECHANICS

MEMBERS OF THE FACULTY OF GRADUATE STUDIES.

HENRY MARTYN MACKAY:—*Professor of Civil Engineering.*

ERNEST BROWN:—*Professor of Applied Mechanics and Hydraulics.*

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

1. **Statically Indeterminate Stresses.** — General methods of stress analysis, influence lines, applications of braced arches, rectangular frameworks, etc.; theory of riveted joints; columns with lateral and intermediate loads, etc.

One term, 2 hrs. tutorial, and 6 hrs. computation and reports.

2. **Technical Elasticity.**—The general equations of elasticity with various applications (special attention being paid to approximate numerical solutions); strength of flat plates, etc.; torsion of thin tubes and prisms of non-circular section; the determination of stress distribution by means of polarized light; elastic stability; vibration of structures.

One term, 2 hrs. tutorial, and 6 hrs. computation and reports.

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* These are also given as undergraduate courses.

3. **Secondary Stresses.**—Secondary stresses due to rigidity of joints, deflection of floor beams, eccentric connections, latticing, etc.; critical discussion of specifications for structural members in the light of tests.

One term, 2 hrs. tutorial, and 6 hrs. computation and reports.
Professor MacKay.

4. **Reinforced Concrete Arches (Advanced).** — Preliminary design, development of influence lines, unsymmetrical arches, elastic piers, economics of concrete arches, etc.

One term, one hour tutorial, and 6 hrs. computation and reports.
Professor MacKay.

5. **Hydraulics.**—General principles of hydrology in relation to power development; stream gauging and use of records; flow in streams and in open channels; effect of dams and obstructions; back-water computations; the principles of hydraulics as applied to modern turbines; general trend of turbine development; turbine testing and characteristics; special problems such as pressure surges in conduits; general consideration of water-power plants, including the study of plants in operation; turbine testing and experimental work in hydraulic laboratory.

One hour tutorial, and 6 hrs. computation and reports throughout the session .....Professor Brown.

DEPARTMENT OF CLASSICS

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

WILLIAM D. WOODHEAD:—*Hiram Mills Professor of Classics.*

ASSOCIATE OF THE FACULTY.

SAMUEL B. SLACK:—*Professor of Greek.*

COURSES FOR THE DEGREE OF MASTER OF ARTS

Greek 1: Pindar.
2 hrs. Colloquia.....Professor Woodhead.

Greek 2: Demosthenes, as Statesman and Orator.
2 hrs. Colloquia.....Professor Slack.

Greek 3: Plato, Laws.
2 hrs. Colloquia.....Professor Slack.

Latin 1: Historical Latin Grammar.
2 hrs. Colloquia.....Assistant Professor Carruthers.

Latin 2: Virgil, Aeneid.
2 hrs. Colloquia.....Assistant Professor Thompson.

Latin 3: The Tragedies of Seneca.....Professor Woodhead.
(Other courses in Latin or Greek may be obtained by arrangement.)

DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

STEPHEN LEACOCK:—*Professor of Political Economy.*

ASSOCIATE OF THE FACULTY.

JOSEPH CLARENCE HEMMEON:—*Associate Professor of Economics and Political Science.*

COURSES FOR THE DEGREE OF MASTER OF ARTS

*1. **Social and Industrial Legislation.**
3 hours.....Assistant Professor Farthing.

*2. **Great Britain: Economic and Fiscal Problems.**
3 hours.....Associate Professor Day.

3. **Development of Public Policy in Canada, 1867-1897.** Parliamentary Debates and Contemporary Documents.
3 hours in 1st term.....Professor Leacock.

4. **Development of Public Policy in Canada, 1897-1914.** Parliamentary Debates and Contemporary Documents.
3 hrs. in 2nd term.....Professor Hemmeon.

5. **Graduate Seminar.**
(Conferences with individual students). 1 hour.

The work in the Department is carried out with special reference to the study of the economic and political problems of Canada.

No students are admitted except those who have taken an honour B.A. degree in the department or who have completed elsewhere a course accepted by the department as equivalent to that standing.

Beginning with the session 1926-1927, Graduates in Commerce who have specialized in Economics may proceed to the Degree of M.A. in Economics. Detailed requirements for registration will appear in the Bulletin for 1926-1927.

DEPARTMENT OF ELECTRICAL ENGINEERING

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

LOUIS A. HERDT:—*Professor of Electrical Engineering.*

ASSOCIATE OF THE FACULTY.

CLARENCE V. CHRISTIE:—*Associate Professor of Electrical Engineering.*

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

1. **Advanced Mathematics.**—Lectures and study under the direction of the Department of Mathematics.

Lectures, 2 hrs.....Professor Murray.

2. **Electrical Physics.**—Lectures and study under the direction of the department of Physics.

Lectures, 2 hrs.....Professor ————

3. **Electrotechnics.**

Colloquium, 2 hrs.....Professor Herdt.

The thesis will be in one of the following fields of investigation:

(a) Design, characteristics and testing of electrical machinery; investigation of special machinery; special problems of design.

Professor Herdt.

(b) Properties of dielectrics and electric insulators; laboratory instruction and experimental investigation, with facilities for high voltage testing.....Associate Professor Christie.

(c) Design, characteristics and testing of electrical engineering measuring instruments and devices. Facilities are available for precision measurements of most of the electrical quantities. Laboratory investigation of new types of measuring instruments and development of special devices.....Assistant Professor Wallace.

(d) Investigation of devices for protection of electrical power systems; laboratory testing of relays and other devices; development of special types.....Assistant Professor Burr.

A workshop is available for the construction of special apparatus for research work.

DEPARTMENT OF ENGLISH

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

CYRUS MACMILLAN:—*Professor of English.*

ASSOCIATES OF THE FACULTY.

GEORGE W. LATHAM:—*Associate Professor of English.*

HAROLD G. FILES:—*Assistant Professor of English.*

F. W. BAXTER:—*Assistant Professor of English.*

COURSES FOR THE DEGREE OF MASTER OF ARTS

1. **Anglo-Saxon.**
   Beowulf.
   2 hrs.....Associate Professor Latham.
2. **The English and Scottish Popular Ballads,** with some attention to Canadian Folk-songs and Folk-tales and their relation to those of Europe.
   2 hrs.....Professor Macmillan.
3. **Chaucer.** Prerequisite:—14 (in the undergraduate course).
   2 hrs.....Associate Professor Latham.
4. **The Drama in England from 1660 to 1920.**
   2 hrs.....Professor Macmillan.
5. **Methods of Literary Criticism.**
   2 hrs.....Assistant Professor Files.

*6. **Spenser and Milton.**
   3 hrs. in first term; Mon., Wed., Fri., at 9.
   Associate Professor Latham.

*7. **Shakespeare (Six Plays).**
   3 hrs.; Mon., Wed., Fri., at 10.....Professor Macmillan.

*8. **(a) The Romantic Poets; (b) Tennyson and Browning.**
   3 hrs.; Mon., Wed., Fri., at 11.
   Professor Macmillan and an Assistant.

*9. **English Novelists, from DeFoe to George Eliot.**
   3 hrs.; Tu., Th., Sat., at 10.....Assistant Professor Files.

*10. **The English Drama, 1590-1642.**
   3 hrs.; Mon., Wed., Fri., at 11.
   Professor Macmillan and Assistant Professor Files.

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*Courses marked with an asterisk are undergraduate honour courses in the Faculty of Arts which may also be followed by graduate students who have not already taken them.

*11. **Anglo-Saxon; Anglo-Saxon Poetry and Introduction to English Philology.**
3 hrs., 2nd term; Mon., Wed., Fri., at 2.
Associate Professor Latham.

*13. **Chaucer.**
3 hrs. in second term; Mon., Wed., Fri., at 9.
Associate Professor Latham.

*14. **Comparative Literature.**
(The Influence of English Literature upon the Continent of Europe in the 18th and 19th Centuries).
3 hrs.; 2nd term.....Assistant Professor ————

*15. **Comparative Literature.**
(The Literary Relations of France and England in the 16th and 17th Centuries).
3 hrs.; 1st term; Mon., Wed., Fri., at 12.
Assistant Professor ————

16. **Memoirs and Memoir Writers.**

17. **The English Drama to 1590.**
Assistant Professor Baxter.

Candidates for the degree of M.A., taking English as their only subject, must select four courses, of which two must be from Nos. 1 to 5 (inclusive), while No. 11, or its equivalent, is compulsory.

DEPARTMENT OF ENTOMOLOGY

(Macdonald College)

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

WILLIAM LOCHHEAD:—*Professor of Entomology and Zoology.*

ASSOCIATE OF THE FACULTY.

E. M. DU PORTE:—*Lecturer in Entomology.*

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

1. **Advanced Systematic Entomology.**

Four laboratory hours a week supplemented with lectures and colloquia.

Each student shall bring to the class a collection of the group of insects on which he desires to work, and may devote the greater portion of his time to a study of this group.

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*Courses marked with an asterisk are undergraduate honour courses in the Faculty of Arts which may also be followed by graduate students who have not already taken them.

2. The History, Literature, and Organization of Entomology.

An extensive reading course with a weekly colloquium, supplemented by lectures when necessary.

3. Insect Morphology and Physiology.

A comparative study of insect morphology, development and phylogeny; the histology and physiology of organs; research on assigned topics.

One lecture, one colloquium, and four hours laboratory.

4. Advanced Economic Entomology.

(a) *Insect Pests of Crops and Forests.* A continuation of course 8 of the B.S.A. course (See Macdonald College announcement). Extensive reading, with a weekly colloquium, and four laboratory hours.

(b) *Medical and Veterinary Entomology.* Two lectures.

(c) *Principles of Insect Control.* Two lectures.

(d) *Entomological Technique.* Field and laboratory methods in studying economic insects; photography; preparation of manuscripts and illustrations for publication; museum methods; insecticides and insecticide machinery. Two hours laboratory.

5. Seminar. 1½ hours.

Courses offered by the Department of Zoology may also be taken.

A candidate for the degree of Doctor of Philosophy may take two years at Macdonald College, and one at another University. In his second year he must take all of the courses outlined above which were not taken in his first year, and may select any of the others for further study.

Candidates who have taken the equivalent of the undergraduate courses in Entomology (see Macdonald College announcement) may complete the work for the degree of Master of Science in one year, otherwise at least two years will be required.

DEPARTMENT OF GEOLOGY AND MINERALOGY

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

J. AUSTEN BANCROFT:—*Professor of Geology.*

ASSOCIATES OF THE FACULTY.

RICHARD P. D. GRAHAM:—*Associate Professor of Mineralogy.*

JOHN J. O'NEILL:—*Assistant Professor of Geology.*

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

Students must take Courses 1 to 7, inclusive.

1. **General Geology.**—As in "Text Book of Geology," by Pirsson and Schuchert, vols. 1 and 2. To be read by students, with occasional colloquia.....Professor Bancroft.

2. **Geological Colloquium.** — Papers on a great variety of geological topics are assigned to students for review and concise presentation as a preface to general discussion. Each year, this course must be taken by all graduate students in Geology. 1 hr. per week.

3. **Ore Deposits.**—As in "Mineral Deposits," by Lindgren; "Economic Aspects of Geology," by Leith; and "Principles of Economic Geology," by Emmons.
Colloquium, 4 hrs. per week.....Assistant Professor O'Neill.

4. **Optical Mineralogy.**—Methods of determining the various optical properties of minerals. Optical chapters in Miers' "Mineralogy" and Dana's "Text Book of Mineralogy"; Tutton's "Crystallography and Practical Crystal Measurement." 1 lecture and 1 laboratory period per week during the first term.....Associate Professor Graham.

5. **Petrography.**—As in "Petrology for Students," by Harker, and "Essentials for the Microscopical Determination of Rock-forming Minerals and Rocks," by Johannsen. At least 9 hrs. laboratory per week...Professors Bancroft, Graham and O'Neill.

6. **Palæontology.**—1 hr. lecture and 1 laboratory period per week. .....Professor Clark.

7. **Physiography.**—This course must be taken by those who have not taken it in Fourth Year Arts.
2 lectures per week.....Professor Bancroft.
Students who have completed Undergraduate Courses in general geology, mineralogy, determinative mineralogy, petrography, Canadian geology, historical geology and ore deposits and economic geology, or their equivalents, may expect to complete their M.Sc. course in one year; otherwise two years are necessary for the Degree.

DEPARTMENT OF GERMANIC LANGUAGES AND LITERATURES

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

H. Walter:—*Professor of Germanic Languages and Literatures.*

COURSES FOR THE DEGREE OF MASTER OF ARTS

1. **Comparative Literature** (Department of English, Course 15).
3 hrs.; 1st term.....Assistant Professor Files.
2. **Goethe.**
1 hr.....Professor Walter.

3. **Geschichte des deutschen Romans.**
1 hr.....Professor Walter.

4. **Grillparzers Dramen.**
1 hr.....Professor Walter.

5. **Gothic and Introduction to Germanic Philology.**
1 hr.....Professor Latham.

6. **Praktische Ubungen.**
1 hr.....Professor Walter.

Candidates who have not taken German Philology and Mediæval Texts in their undergraduate course must take it as part of their M.A. course, except when German is taken as a minor.

DEPARTMENT OF HISTORY

MEMBERS OF THE FACULTY OF GRADUATE STUDIES.

BASIL WILLIAMS:—*Professor of History.*

CHARLES EDMUND FRYER:—*Professor of History.*

ASSOCIATE OF THE FACULTY.

W. T. WAUGH:—*Associate Professor of History.*

COURSES FOR THE DEGREE OF MASTER OF ARTS

*1. **European Expansion and Colonization.**
Lectures, 3 hrs.....Professor Williams.

2. **Reformation Period.**
Seminar, 1 hr.....Professor Waugh.

3. **Historical Methods and Criticism.**
Seminar, 1 hr.....Professors Williams, Fryer and Waugh.

*4. **Age of Chaucer and Wycliffe.**
Seminar, 1 hr.....Professor Waugh.

*5. **The Russo-Turkish War and the Treaty of Berlin.**
Seminar, 1 hr.....Professor Fryer.

*6. **The Anglo-French Entente of 1904.**
Seminar, 1 hr.....Professor Fryer.

7. **British Foreign Policy, 18th Century.**
Seminar, 1 hr.....Professor Williams.

8. **Canada Under the Union, 1840-67.**
Seminar, 1 hr.....Professor Fryer.
Other courses may be arranged to suit students.

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*These courses are also open to undergraduate students reading for honours in History in the Faculty of Arts.

DEPARTMENT OF MATHEMATICS

MEMBERS OF THE FACULTY OF GRADUATE STUDIES.

DANIEL A. MURRAY:—*Professor of Applied Mathematics.*
CHARLES T. SULLIVAN:—*Professor of Mathematics.*

ASSOCIATE OF THE FACULTY.

ALBERT H. S. GILLSON:—*Associate Professor of Mathematics.*

COURSES FOR THE DEGREE OF MASTER OF ARTS

*1. **Introduction to the Theory of Functions of a Real Variable.**
3 hrs.....Professor Sullivan.

*2. **Introduction to the Theory of Functions of a Complex Variable.**
3 hrs.....Associate Professor Gillson.

3. **Theory of Numbers.**
Introduction to the Classical Theory of Numbers; Arithmetical properties of hypercomplex numbers; etc.
2 hrs..... Dr. Williams.

4. **The Differential Equations of Mathematical Physics.**
One hour a week of this course will be devoted to the theory of the potential. Particular attention will be paid in the remaining part of the course to Laplace's equation and to the wave-equation, with applications to problems in elasticity, electromagnetism and hydrodynamics.
2 hrs.....Associate Professor Gillson.

5. **Differential Geometry.**
2 hrs.....Professor Sullivan.

6. **Projective Geometry.**
2 hrs.....Assistant Professor Matthews.

7. **Differential Equations and Advanced Calculus.**
2 hrs.....Professor Murray.

8. **Theory of Generalized Relativity.**
2 hrs. 1st term and 2nd term.....Associate Professor Gillson.

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*Open also to undergraduates of the Fourth Year in the honour course.

Course 7 is intended specially for graduates in the Faculty of Applied Science who are proceeding to the M.Sc. degree in courses in Applied Science; *e.g.* in Electrical Engineering, or in Civil Engineering. It will be a minor among the courses taken by candidates for this M.Sc. degree, and is based necessarily on the mathematics taken in preparation for the B.Sc. degree in Applied Science.

DEPARTMENT OF MECHANICAL ENGINEERING

ASSOCIATES OF THE FACULTY OF GRADUATE STUDIES.

CHARLES M. MCKERGOW:—*Professor of Mechanical Engineering.*

ARTHUR R. ROBERTS:—*Associate Professor.*

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

1. **Engineering Thermodynamics.** Prerequisites, Courses 220 and 251 (see Announcement of the Faculty of Applied Science).

3 hrs. colloquia .....Professor McKergow.

2. **Machine Design.** Prerequisites, Courses 225 and 242 (see Announcement of the Faculty of Applied Science).

3 hrs. colloquia.....Professor Roberts

DEPARTMENT OF METALLURGICAL ENGINEERING

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

ALFRED STANSFIELD:—*Professor of Metallurgy.*

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

1. **General Advanced Metallurgy.** A series of advanced studies of the theory and practice of metallurgy, taken from the following list:—

Physical properties and allotropic changes of metals.
Constitution and properties of metallic alloys.
Constitution and properties of slags and mattes.
Chemical equilibria, thermo-chemistry and speed of chemical reactions in metallurgical practice.
Design and efficiency of fuel-fired and electrical furnaces.
Properties, cleaning and utilization of furnace gases.
Electrolysis as applied to the refining and recovery of metals.

Instruction is given by directed reading supplemented by two hours per week of colloquium and three hours per week of laboratory work.....Dr. Stansfield, Mr. Sproule and Mr. Roast.

2. The same as No. 1, but including a special study of one or more selected metals, or of some special branch of metallurgy such as electro-metallurgy or hydro-metallurgy. (Alternative with No. 1.) Dr. Stansfield.

3. The same as No. 1, but including a course of instruction and laboratory work on the properties of metals and refractory materials and the use of metallurgical testing instruments. (Alternative with No. 1.).....Dr. Stansfield and Mr. Sproule.

The following undergraduate subjects are offered to students who did not take them in their undergraduate course:—

4. **Advanced Metallurgy.** Fourth Year Applied Science, No. 272. 2 hrs. lectures. .....Dr. Stansfield.

5. **Electro-Metallurgy and Laboratory.** Fourth Year Applied Science, No. 275. 2 hrs. lectures and 1 laboratory period in second term. .....Dr. Stansfield.

6. **Metallurgical Analysis.** Fourth Year Applied Science, No. 279. 1 hr. lecture and 1 laboratory period in second term.
Mr. Roast.

7. **Metallography and Laboratory.** Fourth Year Applied Science, Nos. 280 and 281. 1 hr. lecture and 1 laboratory period in first term. .....Mr. Roast.

DEPARTMENT OF MINING ENGINEERING

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

JOHN BONSALL PORTER:—*Professor of Mining Engineering and Director of the Mining Building.*

ASSOCIATE OF THE FACULTY.

JOHN W. BELL:—*Associate Professor of Mining Engineering.*

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

A. *Undergraduate Courses open to Graduate Students who have not already taken them as undergraduates.*

*1. **Mining Engineering.**. Course 297 in the Faculty of Applied Science (see the Announcement of that Faculty). The whole of this course of three lectures per week for two terms, or selected portions of it (methods of mining), is suitable as part of the requirements for the degree of M.Sc.

*2. **Mining Machinery and Design.** Course 298 in the Faculty of Applied Science (see the Announcement of that Faculty). The whole of this course of two lectures per week for one term, or selected portions of it (as hoisting machinery, etc.), are suitable as part of the requirements for the M.Sc. degree.

*3. **Advanced Mining.** Course 299 in the Faculty of Applied Science (see Announcement of that Faculty). One lecture per week for two terms. This course is taken by one section only of the Undergraduate class in Mining and is suitable as advanced work for other students for the degree of M.Sc.

B. *Advanced courses open to Graduate Students only.*

4. **The History of Ore Concentration.** The development of methods and appliances for the concentration and beneficiation of minerals and metallic ores. One lecture per week for one term. Dr. Porter.

5. **Works Organization and Management.** With especial reference to Mining and Ore Dressing establishments. One lecture per week for two terms.....Dr. Porter.

6. **The Theory of Rock Crushing and the Determination of the Efficiency of Rock Crushing Appliances.**

One lecture per week for one term.....Professor Bell.

7. **Rock Crushing Laboratory.** Advanced students who wish to supplement course No. 6 by additional laboratory work will be given one or two laboratory periods of two hours each per week for one term.....Professor Bell and Mr. Erlenborn.

8. **Sizing of Crushed Material by means of Sieves.** The theory and practice of sizing on sieves and similar devices. One lecture and one laboratory period per week for one term. Dr. Porter.

9. **Screen Sizing Laboratory.** Students who wish to supplement course No. 8 will be given one or two laboratory periods per week for one term.....Professor Bell and Mr. Erlenborn.

10. **The Settling of finely divided Mineral in Water.** Theories of classification and settling, the effect of temperature and of various electrolytes, colloids and flocculents, the calculation of settling rates and the design of settling tanks. Two lectures and one laboratory period for one term.....Professor Bell.

11. **Classification Laboratory.** Advanced students who wish to supplement course No. 10 will be given one or two laboratory periods per week for one term.....Professor Bell and Mr. Erlenborn.

12. **The Separation of finely divided Minerals differing in Specific Gravity on Inclined Plane Surfaces.** The theory and practice of table concentration. One lecture and one laboratory period per week for one term.....Dr. Porter or Professor Bell.

13. Filtration in Ore Dressing and Cyanidation. Theoretical and practical conditions governing the removal of finely divided and semi-colloidal minerals from water and dilute solutions by means of mechanical filtration apparatus. One lecture and one laboratory period per week for one term.....Dr. Porter and Mr. Erlenborn.

14. Filtration Laboratory. Advanced students who wish to supplement course No. 13 will be given one or two laboratory periods per week for one term.....Professor Bell and Mr. Erlenborn.

15. The Cyanidation of Gold and Silver Ores. Advanced studies of the theory and practice of cyanidation. One lecture per week for one term.....Dr. Porter and Mr. Erlenborn.

16. Cyanidation Laboratory. Advanced students who wish to supplement course No. 15 will be given one or two laboratory periods per week for one term.....Professor Bell and Mr. Erlenborn.

17. The Theory and Practice of Flotation. Advanced studies in flotation, surface tension, etc. Two lectures per week for one term. Professor Bell or Mr. Erlenborn.

18. Flotation Laboratory. Advanced students who wish to supplement course No. 17 will be given one or two laboratory periods per week for one term.....Professor Bell and Mr. Erlenborn.

19. Coal Washing. The application of ore dressing methods and of flotation to the preparation and purification of coal. One lecture per week for one term.....Dr. Porter.

20. Coal Washing Laboratory. Advanced students who wish to supplement course No. 19 will be given one or two laboratory periods per week for one term....Professor Bell and Mr. Erlenborn.

21. The Deterioration of Coal in Storage. The oxidation and dehydration of coal on exposure to the atmosphere, spontaneous combustion of coal in mines and storage, and the methods of preventing spontaneous combustion of coal in storage. One lecture per week for one term.....Dr. Porter.

NOTE.—The department reserves the right to substitute Colloquia in place of set lectures when the classes are small enough to warrant the change.

DEPARTMENT OF ORIENTAL LANGUAGES AND LITERATURE

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

C. A. BRODIE BROCKWELL:—*Professor of Hebrew and Semitic Languages, Law and History.*

ASSOCIATES OF THE FACULTY.

ALEXANDER R. GORDON:—*Professor of Hebrew.*

GEORGE ABBOTT-SMITH:—*Assistant Professor of Jewish Hellenistic Literature.*

COURSES FOR THE DEGREE OF MASTER OF ARTS

1. **Special Texts:** connected with Hebrew, or Aramaic, or Syriac, or Phoenician and Punic, or Arabic, or Ethiopic, according to the nature of the thesis.
   3 hrs...Professor Gordon, Assistant Professor Abbott-Smith, or Mr. Graham.

2. **Synopsis of Semitic History.**
   1 hr.....Professor Gordon.

*3. **Semitic Comparative Philology.**
   1 hr.....Professor Brockwell.

*4. **Semitic Epigraphy:** including a knowledge of the history of the Semitic alphabet.
   1 hr.....Professor Brockwell.

*5. **Hebrew and Semitic Social Customs, Institutions and Codes.**
   3 hrs.....Professor Brockwell.

6. **Post-Biblical Hebrew Texts.**
   2 hrs.....Professor Brockwell.

7. **The Arithmetical Processes implied in the Grammar and Syntax of the Hebrew and Semitic Numerals.**
   1 hr.....Professor Brockwell.
   Or the following can be substituted for any two of the courses 2, 3, 4, 6, 7.

8. **Hellenistic Grammar, Syntax and Lexicography.**
   1 hr.....Assistant Professor Abbott-Smith.

9. **The Critical Use and Values of Hellenistic Documents.**
   1 hr.....Assistant Professor Abbott-Smith.

N.B.—Each of these nine courses consists of lectures.

*Courses also open to undergraduates.

COURSE FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

This will be arranged on application to the Faculty.

PATHOLOGY AND BACTERIOLOGY

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

HORST OERTEL:—*Strathcona Professor of Pathology.*

ASSOCIATES OF THE FACULTY.

A. A. BRUÈRE:—*Assistant Professor of Bacteriology.*
THEO. R. WAUGH:—*Assistant Professor of Pathology.*

COURSES FOR THE DEGREES OF MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY

*1. **The Historic, Philosophic and Scientific Foundations of Pathology.**
2 lectures and demonstrations.....Professor Oertel.

*2. **The Haematopoietic System; Technique, Methods, Physiology, and Pathology.**
(Open also to *advanced* undergraduates.)
1 lecture and demonstration.....Professor Waugh.

3. **Pathology Before and After Virchow.**
Seminar, 1st term.....Professor Oertel.

4. **Special Problems in Haematology.**
Seminar twice weekly.....Professor Waugh.

4a. **Research into haemotological problems.**
Daily.....Professor Waugh.

5. **Practicum and Colloquium in Pathological Anatomy.**
2 colloquia.....Professor Oertel.

*6. **Lectures and Systematic Laboratory Exercises in Bacteriology, including the Consideration of the Important Pathogenic Micro-organisms, and their Cultivation and Identification.**
2 lectures, 1st term.....Professor Bruère.

7. **Practicum and Colloquium on the Methods and Technique of Serological Blood Examinations.**
1 colloquium, 2nd term.....Professor Bruère.

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*These courses are also open to undergraduates.

8. **Bacteriological and Serological Methods for Isolation of Pathogenic Micro-organisms Applied to Diagnostic Purposes and to Specific Organs.**
   Daily, 2nd term.....Professor Bruère.
9. **Research into Problems of Immunity.**
   Throughout the session.....Professors Oertel and Bruère.

REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE

Candidates for the degree should take courses 1, 3, 6, 7 with any one additional course desired.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Candidates for this degree if they desire to devote their attention more particularly to pathology will take the other courses in that subject, and if they wish to follow more especially the study of bacteriology, they will take courses 8 and 9. In either case additional courses will be provided if necessary, to meet the instruction requirements.

Arrangements may be made by which candidates for either of these degrees may take a part of their work in the Department of Bacteriology at Macdonald College if they desire to do so.

DEPARTMENT OF PHARMACOLOGY

MEMBER OF THE FACULTY.

RAYMOND L. STEHLE:—*Associate Professor of Pharmacology.*

ASSOCIATE OF THE FACULTY.

S. M. ROSENTHAL:—*Lecturer in Pharmacology.*

Candidates for the higher degrees must present evidence of suitable preparation in chemistry and physiology and must have completed the undergraduate course in Pharmacology.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

1. **Advanced Pharmacology.** Laboratory 90 hrs.; conference 30 hrs.
2. **Chemical Pharmacology.** Fifteen lectures on the chemistry of drugs, including discussions on the relations between chemical structure and pharmacological action.
3. **Bio-assay.** Laboratory 60 hrs.; conference 15 hrs.
4. **Physiology of the Liver and Spleen.** 30 hrs. of laboratory work and 15 lectures. The laboratory work will include those

methods of investigation which are of practical clinical value. The lectures will deal with the functions of the liver, biliary passages, spleen and reticulo-endothelial system.

5. **Colloquium.** 1 hr. weekly.

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Any of the above courses not taken in the first year of graduate study must be taken together with other courses which will be provided.

DEPARTMENT OF PHILOSOPHY

MEMBERS OF THE FACULTY OF GRADUATE STUDIES.

WILLIAM CALDWELL:—*Professor of Moral Philosophy.*

IRA A. MACKAY:—*Professor of Logic and Metaphysics.*

COURSES FOR THE DEGREE OF MASTER OF ARTS

*1. **The Critical Philosophy of Kant.**
Lectures, Readings and Papers.
3 hours.....Professor Caldwell or Professor Mackay.

2. **Ethical Seminary.**
Recent and Contemporary Ethical Theories.
3 hours.....Professor Caldwell.

3. **Philosophical Seminary.**
3 hours.....Professor Mackay

DEPARTMENT OF PHYSICS

MEMBERS OF THE FACULTY OF GRADUATE STUDIES.

A. STEWART EVE:—*Macdonald Professor of Physics and Director of the Physics Building.*

LOUIS V. KING:—*Macdonald Professor of Physics.*

ASSOCIATE OF THE FACULTY.

A. NORMAN SHAW:—*Associate Professor of Physics.*

COURSES FOR THE DEGREES OF MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY

*6a. **Electrical Measurements.**
2 hrs.; Wed., Fri., at 9; 2 hrs. lab.; Wed., 2-6.
Assistant Professor Bieler.

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*These courses are also open to undergraduates.

Text-books:—Terry's Advanced Practice in Electricity and Magnetism (McGraw-Hill); Starling's Electricity and Magnetism (Longmans).

***6b. Light.** (Replaced by 8b in alternate sessions.†)
1 hr.; Mon., at 9 (also lab.).....Assistant Professor Keys.
Text-books:—Edser's Light (Macmillan); Wood's Physical Optics (Macmillan).

***7a. Electro-magnetic Theory.**
1 hr.; Th., at 11.....Assistant Professor Keys.
Text-book:—Pierce's Electrical Oscillations and Electric Waves (McGraw-Hill).

***7b. Mathematical Physics.**
2 hrs.; Tu., Sat., at 11.....Assistant Professor Foster.
Text-book:—Houston's Introduction to Mathematical Physics (Longmans).

***8a. Molecular Physics.**
2 hrs.; Wed., Fri., at 9.....Associate Professor Shaw.
Text-book:—Crowther's Ions, Electrons and Ionizing Radiations (E. Arnold).

***8b. Theory of Heat.** (Replaced by 6b in alternate session.†)
1 hr.; Mon., at 9 (also 3 hrs. lab.)..Associate Professor Shaw.
Text-book:—Preston's Theory of Heat (Macmillan).

***9. Radioactivity.**
2 hrs.; 2nd term (also 3 hrs. lab.).Assistant Professor Bieler.
Text-book:—Rutherford's Radioactive Transformations (C.U.P.).

10. Vector Analysis.
2 hrs.; 1st term.....Professor Eve.
Text-book:—Coffin's Vector Analysis (Wiley).

11. Advanced Statics, Dynamics, Hydrodynamics and Sound.
2 hrs.....Professor King.
Text-books:—Lamb's Higher Mechanics (C.U.P.), Bassett's Hydro-dynamics and Sound (Deighton Bell).

12. Kinetic Theory of Matter.
2 hrs.....Professor King.
Text-book:—Jean's Dynamical Theory of Gases (C.U.P.).

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*These are also given as undergraduate courses.

†Courses 6b and 8b will be given in alternate sessions as follows:—6b in '26-'27, '28-'29, etc., and 8b in '25-'26, '27-'28, etc.

13. **(a) Quantum Theory.**
1 hr.; 1st term.....Professor Eve.
Text-book:—Sommerfeld's Atomic Structure (Methuen).
(b) Relativity.
1 hr.; 2nd term.....Associate Professor Gillson.

14. **Advanced Electricity and Magnetism.**
2 hrs.....Professor King.
Text-book:—Jean's Electricity and Magnetism (C.U.P.).

15. **Laboratory Practice and Physical Manipulation.**
A course of practical instruction on the use of tools (including the lathe), glass-blowing, photography and the construction of simple apparatus. This course is designed as an aid and introduction to original research.
1 hr. (also 2 hrs. lab.).
Assistant Professor D. Keys, Mr. H. T. Pye.

16. **Thermodynamics.**
1 hr.....Professor Barnes.
(Alternate sessions, 1926-27, 1928-29.)

17. **Electron Theory.**
1 hr.....Professor King.
Text-books:—Richardson's Electron, Theory of Matter (C.U.P.); Lorentz, Theory of Electrons (Teubner).

A selection of courses from 6a to 9 may be made in the case of Physics, being a minor subject. A general paper on elementary Physics is also given when Physics is a minor subject.

As a major course, M.Sc. or Ph.D., a suitable selection will be made from the above courses (6a to 17). 6a to 8 are usually covered, however, in the undergraduate Honour Course in Physics.

Graduate students will also take part in the Physical Society, the weekly Journal Club, and the weekly Colloquium.

DEPARTMENT OF PHYSIOLOGY

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

JOHN TAIT:—*Professor of Physiology and Director of Experimental Medicine.*

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

1. **Senior Laboratory**—chiefly mammalian experimental work. 3 hours.

2. **Advanced Physiology.**

In this course certain branches of the subject will be selected for

more detailed treatment because of their special medical or scientific interest.

2 hours lectures for 1 term.....Professor Tait and Staff.

3. Structure and Function.

This course includes a review of modern work in biology in which structure, whether of the developing or of the adult animal, has been investigated by experimental means. The aim is to show the scope and place of physiology and of physiological method in relation to such problems. A special study will be made of structural adaptations to physically new environment.

2 hours lectures for 1 term.....Professor Tait.

4. Blood and Circulation.

This course, designed in part for clinicians, will include lectures, laboratory work and demonstrations. The following questions will receive consideration:—Life history of the corpuscle, hæmoglobinæometry, hæmocytometry, hæmolysis, blood transfusion, coagulation and arrest of hæmorrhage, cytology of the cerebro-spinal fluid, methods of recording pulse and blood pressure, electrocardiography and experiments on the excised heart and vessels.

1 hour lectures and 30 hours laboratory.

Drs. Giblin, Cassidy and Burke.

5. Physiological Colloquium.

This meets weekly and is limited to those engaged in research in the department. Colloquium, 2 hours.

6. Tutorial Class.

Colloquium, ½-hour.

7. Clinics in Experimental Medicine.

These clinics, which are held in conjunction with members of the McGill hospital staff, have the object not of discussing diagnosis or treatment but of opening up research possibilities.

2 hours for one term.

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Courses for a second year, toward the degree of Doctor of Philosophy, may be selected from those set forth above which have not already been taken in the first year of graduate study.

Students' Physiological Society.

Both undergraduate and graduate students will find it of advantage to become members of the Students' Physiological Society. In addition to the privilege of hearing from time to time addresses on

special departments of the subject, members are entitled to consult and to borrow books from the library of the Society, which contains many standard text-books and special works.

The advanced courses in physiology have been designed with two things in view: (1) to provide higher training for graduates who look forward to an exclusively academic career either in physiology or in some cognate branch of biological or medical science; (2) to offer increased facilities of study to the younger clinicians of the school. The work is arranged to meet the individual needs of each student.

DEPARTMENT OF PSYCHOLOGY

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

WILLIAM D. TAIT:—*Professor of Psychology.*

ASSOCIATE OF THE FACULTY.

CHESTER E. KELLOGG:—*Associate Professor of Psychology.*

GRADUATE COURSES

1. **Psychological Laboratory.**
   Experimental Investigations in Human Psychology.
   6 hrs.....Professor Tait and Associate Professor Kellogg.
2. **Seminary in Psychology.**
   Subject: Contemporary Psychology.
   3 hrs.....Professor Tait
3. **Advanced Psychology.**
   3 hrs.....Associate Professor Kellogg.

Note.—For other Graduate Courses see Faculty of Arts announcement.

DEPARTMENT OF ROMANCE LANGUAGES

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

RÉNÉ DU ROURE:—*Professor of French.*

ASSOCIATE OF THE FACULTY.

LUCIE TOUREN FURNESS:—*Assistant Professor of French.*

COURSES FOR THE DEGREE OF MASTER OF ARTS

1. **Comparative Literature** (Department of English, Course 16).
   3 hrs.; 1st term.....Assistant Professor Files.
2. **Histoire de la langue française.**
   1 hr.....Professor du Roure.

3. **Victor Hugo.**
   2 hrs.....Assistant Professor Furness.
4. **Exercises pratiques** (colloquia).
   1 hr.....
*5. **Histoire du roman en France.**
   3 hrs. (Given in 1926-1927)...Associate Professor du Roure.
*6. **Histoire du Théâtre en France.**
   2 hrs. (Given in 1926-1927).....
   Associate Professor du Roure and Asst. Prof. Messac.
*7. **Histoire de la poésie lyrique en France.**
   3 hrs. (Given in 1925-26).....Associate Professor du Roure.

Candidates for the Master's degree in French only will take courses 1 to 4 inclusive, and also one of 5, 6, 7.

Certain courses given in the Summer School in French, if taken by graduate students, may be accepted as part of the requirements for the degree of Master of Arts.

Those taking French as a major will omit 1 and either 2 or 3.

Those taking French as a minor will take 4 and one of the one-hour courses.

Those who have not taken French Philology in their undergraduate course must take it as a part of their M.A. course, except when French is taken as a minor.

DEPARTMENT OF SOCIOLOGY

ASSOCIATES OF THE FACULTY OF GRADUATE STUDIES.

CARL ADDINGTON DAWSON:—*Associate Professor of Social Science.*
WARNER ENSIGN GETTYS:—*Assistant Professor of Social Science.*

COURSES FOR THE DEGREE OF MASTER OF ARTS

*1. **The Community:** Rural and Urban.
   3 hours.....Associate Professor Dawson.
*2. **Social Pathology.**
   3 hours, 2nd term.....Assistant Professor Gettys.
3. **Social Attitudes.**
   3 hours, 1st term.....Assistant Professor Gettys.
4. **Social Control.**
   3 hours, 2nd term.....Assistant Professor Gettys.
5. **Seminar:** Social Research; Canadian Problems.
   2 hours.....Associate Professor Dawson.

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*These are also Honour courses in the Faculty of Arts.

DEPARTMENT OF THEOLOGICAL STUDIES

ASSOCIATES OF THE FACULTY OF GRADUATE STUDIES.

GEORGE ABBOTT-SMITH:—*Assistant Professor of Jewish Hellenistic Literature, McGill University.*

THOMAS EAKIN:—*Professor of Practical Theology, Co-operating Theological Colleges.*

D. J. FRASER:—*Professor of New Testament Literature and Exegesis, Co-operating Theological Colleges.*

WILLIAM C. GIFFORD:—*Professor of Church History, Co-operating Theological Colleges.*

ALEX. R. GORDON:—*Professor of Hebrew, McGill University.*

WILLIAM C. GRAHAM:—*Old Testament Language and Literature, Co-operating Theological Colleges.*

SAMUEL P. ROSE:—*Professor of English Bible and Hermeneutics, Co-operating Theological Colleges.*

W. H. WARRINER:—*Professor of New Testament Literature and Exegesis, Co-operating Theological Colleges.*

R. E. WELSH:—*Professor of Apologetics and Church History. Co-operating Theological Colleges.*

A selection from the following courses may be taken as fulfilling the requirements of a Minor Subject for the degree of Master of Arts.

OLD TESTAMENT.

1. **Introduction. Canon, Text and Introduction to the Historical Books.** Exegesis—Selections from the Historical Books or Prophetical Books.
   3 hrs. a week throughout the year.
   Professors Gordon and Eakin.
2. **Biblical Social Life, with special reference to the Hellenistic Period.**
   2 hrs. a week throughout the year.....Professor Graham.
3. **The English Bible.** The Historical Books and the Prophets of the Eighth Century, B.C.
   2 hrs. a week throughout the year.....Professor Rose.

NEW TESTAMENT.

4. **Introduction.** Course in three parts.
   (1) History of New Testament times.
   (2) Canon and Text.
   (3) The Language of the New Testament.
   3 hrs. a week throughout the year...Professor Abbott-Smith.

5. **Introduction to the Acts and Pauline Epistles; and Exegesis (Greek) of the Epistles to the Galatians and Ephesians.**
   3 hrs. a week throughout the year.....Professor Warriner.
6. **Introduction to the Catholic Epistles; and Exegesis (Greek) of the Epistles of St. James, First St. Peter, and First St. John.**
   3 hrs. a week throughout the year.....Principal Fraser.
7. **The Rise and Progress of Protestant Christianity in Europe until the close of the 16th Century.**
   Two lectures a week with weekly colloquium...Prof. Gifford.
8. **History and Comparative Study of Religions — chiefly Buddhist, Hindu, Zoroastrian and Mohammedan (Islam).**
   2 hrs. a week for two terms.....Professor Welsh.

DEPARTMENT OF ZOOLOGY

MEMBER OF THE FACULTY OF GRADUATE STUDIES.

ARTHUR WILLEY:—*Professor of Zoology.*

ASSOCIATE OF THE FACULTY.

————:—*Assistant Professor.*

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

*1. **Zoology of Invertebrata.**
   2 hours lecture, 4 hours laboratory.

*2. **Colloquium.**
   1 hour.

*3. **Zoology of Vertebrata.**
   2 hours lecture, 3 hours laboratory.

*4. **Comparative Embryology.**
   2 hours lecture, 2 hours laboratory, 2nd term.

5. **Parasitology.**
   2 hours lecture, 2 hours laboratory.

6. **Protozoology.**
   2 hours lecture, 2 hours laboratory.

7. **Ecology.**
   2 hours lecture, 2 hours laboratory.

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*These are also Honour Courses in the Faculty of Arts.

SCHOOL OF PHYSICAL EDUCATION

GENERAL INFORMATION

History and Aims.

The McGill School of Physical Education was established in 1912, and has grown from a short summer course to a full two years' course which is now officially recognized by, and is an integral part of, McGill University.

It is the only School of Physical Education in Canada connected with a University, with a full two years' course, and it has been fulfilling its purpose to provide Canada with a training centre for Teachers of Physical Education, with marked success since its inception.

A course in Massage and Remedial Gymnastics was given in 1914 to train workers for civilian and hospital work; this was amplified later in anticipation of war needs, and graduates of this course have done excellent work in the rehabilitation of wounded soldiers and in civilian practice. A further extension of the course was recently made to include all the Physiotherapeutic Measures, Hydrotherapy, Electrotherapy. This course has been temporarily discontinued.

The modern conception of education is one of intellectual, moral and physical development, and not, as has been too frequently misunderstood, the development of the intellect alone. Physical education, including as it does instruction in the laws of health and hygiene, with participation in all forms of physical activity specially selected for the stage of mental and physical development of the child, offers a splendid opportunity for not only increasing the efficiency of the human machine, but also for the development of social and moral qualities in the lives of our future citizens.

The Field.

The field for trained teachers in Physical Education is rapidly increasing and widening in scope, the demand far exceeding the supply in such organizations as the following:—Public and Private Schools; High Schools; Colleges; Y.M.C.A.'s; Y.W.C.A.'s; Church Clubs; Playgrounds; Recreation Centres; Welfare and Social Clubs; Settlements; Industrial Organizations; Boy Scouts; Girl Guides; Summer Camps, etc.

Qualifications.

In addition to the matriculation requirements, there are certain qualifications necessary for the student who is to become a successful

teacher of physical education. Because of the intimate contact with the pupils and the great influence that the teacher can exert, the student must be possessed of high ideals, moral character, noble aspirations, and a forceful personality. She must be able to initiate, organize and control physical activities, and also to counsel and advise upon personal questions with both children and parents. Students must also have had some practical training before entering.

Courses Offered.

A two-year course, from September to May inclusive, is given in the theory and practice of physical education. This course is required for the Diploma of the School, and gives the student a thorough understanding of the mechanism of the human machine, its anatomy, physiology and the underlying principles governing the various functions of the mind and body. The student is made familiar with the theory and practice of physical education in its many forms, and, in addition to actual participation in the various activities, there is, before graduation, a considerable amount of time devoted to practice teaching under supervision.

Partial students may be admitted for the study of special subjects. Special arrangements will be made for admission to the course on Playground Problems.

Facilities.

The work is carried on in the University buildings; the laboratories and museums being at the disposal of the students.

The University Library is available for use by the students, as are the University Hockey Rinks and Tennis Courts.

A special Library of selected works and the leading magazines on physical education is available for use by the students.

Through the kindness of the Protestant Board of School Commissioners, the Day Nursery, the Ladies' Benevolent Society, and the Protestant Orphans' Home, exceptional facilities are afforded for practice teaching and observation.

Practical demonstrations are carried on in the Out-Patient Department of the Montreal General Hospital.

Hostel.

A residence in charge of a resident tutor, at 724 University Street, in the immediate vicinity of the campus, is conducted by the University and is available for students, provided application is made at an early date. Priority will be given to students without conditions. Printed

regulations will be supplied to intending students. The Hostel opens on Tuesday, September 15th.

Room rent $200.00 for the session; board in the Royal Victoria College (adjacent) $320.00 for the session. Charges for rent and board are paid in two instalments (October and February). Rooms are available from the day before the last day of registration (September 15th), until the day after Convocation, for students of the Second Year, and until the Saturday before Convocation (May 22nd), for students of the First Year. The board charges cover the same period. Most of the rooms are cubicles and no room is assigned for a shorter period than the University session, September to May.

Costume for Women Students.

The regulation costumes of the School must be worn, and students will not be permitted to wear other than the regulation garments. Measurement blanks will be furnished upon registration and students will be advised where the costumes can be secured, the approximate cost of tunic, gown, dancing dress and sweater being $50.00 (dancing sandals and shoes extra). A list of articles required, including clothes and books, with approximate cost, will be sent to students on application.

For ordinary wear, students are required to provide themselves with boots or shoes, the inner line of which is moderately straight, with block heels not higher than an inch and a half.

Student Organization.

All undergraduates are members of the McGill Women Students' Society (the official Undergraduate Society for Women).

An Undergraduate Association is also organized by the School of Physical Education, together with an Athletic Association which is a branch of the McGill Women Students' Society.

Voluntary Cadet Corps.

The 1st Montreal Cadet Corps is operated under the auspices of the School for the training of Girl Guide Officers.

Alumnae Association.

There is a very active association of the graduates of the School which meets regularly for mutual benefit. It is the endeavour of the School to keep closely in touch with its graduates, to locate them in positions for which they are best suited, to advise upon particular problems, and to furnish them from time to time with new ideas and inspiration for the profession in which they are engaged.

ENTRANCE REQUIREMENTS

1. Students are required to have passed the Matriculation Examination, as follows:—

1. **English** (two papers).
2. **History** (one paper).
3. **Elementary Mathematics** [**Algebra** (one paper) and **Geometry** (one paper)].
4. One of the following:—
   Physics, Chemistry, Botany, Zoology, Physiography (one paper).
5. One of the following:—
   Latin, French, Greek, German, Spanish (two papers).

For requirements in each subject and other information regarding the examination, see General Announcement of the University.

A candidate who has qualified for admission to the Faculty of Arts or of Applied Science will also be accepted for the School of Physical Education.

Students holding the Degree of B.A. or B.Sc. will be eligible for advanced standing. A complete statement of the courses covered, together with the practical experience of the student, must accompany every such application.

Physical Examination.

In order to safeguard the health of the student, every candidate on entering the school will be required to pass a satisfactory physical examination before proceeding with the course. In order to be sure of the applicant's fitness to undertake the course, out-of-town students are required to submit a medical certificate before registration. (See application form.)

Vaccination.

All students entering the University for the first time are required to present a certificate, or other satisfactory evidence, of successful vaccination, failing which, they shall at once be vaccinated in a manner satisfactory to the authorities.

Health.

Provision is made by the University for the care of the health of undergraduate students during the session. Hospital accommodation is

provided for seven days only, except under special circumstances. A leaflet concerning this service and the general work of the Department, will be distributed at the opening of the session.

Admission.

For the Session 1925-26, only women students will be admitted to the regular courses in the School, and students will not be admitted who are less than eighteen (18) or more than twenty-seven (27) years of age, except under special conditions. A personal interview is necessary, and applicants must have had some practical experience of physical work before registration. Registration for the Session 1925-26 is limited to fifty (50) students and priority will be given to applicants who do not have conditions.

Two references, one of these from the parent or guardian, must be submitted with the application form. The second reference must not be from a relative.

Partial students, both men and women, will be admitted to special courses at the discretion of the Committee, and the work done will count toward the Diploma of the School.

EXAMINATIONS

Diplomas.

Examinations will be conducted in all subjects and diplomas are granted to successful students at the end of the session. Strathcona Certificates issued through the Strathcona Trust are granted to students at the end of the First Year

50 per cent. is required for a pass, 60 per cent. for second class, 75 per cent. for first class; but at least 60 per cent. must be made on teaching and in the major practical subjects.

The Educational Diploma is recognized by the Protestant Committee of the Council of Public Instruction, Province of Quebec, and the Protestant Board of School Commissioners of Montreal as qualifying for the salary of Specialist in the Public Schools.

Students failing in their sessional examinations may, at the discretion of the Committee, take supplemental or special examinations.

All students of the Second Year are required to do a certain amount of normal practice in class work and officiating. Credit is given for this work.

Regulations.

1 All students enter the School on an indeterminate probation. At the end of the first term, students who are considered unsuitable for the profession will be advised to discontinue. $77.00 of the fees paid at the beginning of the course will not in this case be returned.

2. A student may at the discretion of the Committee be requested to withdraw at any time for reasons of unsatisfactory work or conduct.

3. Except in the case of illness or emergency students must not absent themselves without previous permission, and students persistently late or absent will not be allowed to sit for the examinations.

4. No student will be permitted to participate in outside demonstrations, classes or teams, etc., without first having secured permission from the Director.

COURSES OF INSTRUCTION

(The School reserves the right to change any of the Courses here stated.)

JUNIORS.

	Hour.
English	1½
Physics	1
Chemistry	1
General Anatomy and Physiology	3
Osteology and Myology	1
Voice Development and Training	½
Theory of Physical Education	1
Class Management and Teaching	1
First-Aid	½
Playground Problems	1
Gymnastics	5
Recreational (Games and Athletics.)	4
Dancing	2
Aquatics	1
Practice Teaching	2

SENIORS.

	Hour.
Kinesiology and Applied Anatomy	½
Psychology	1
Physiology of Exercise	1
Physical Diagnosis	½
Remedial Gymnastics	1
Anthropometry	½
Preventive Medicine	2
Theory of Physical Education	1
Class Management and Teaching	1
Organization and Administration	1
Child Welfare	1
History, Physical Education	½
Gymnastics	3½
Recreational (Games and Athletics.)	3
Dancing	3
Aquatics	1
Practice Teaching	3
Remedial Gymnastics and Massage	1

The hours as stated indicate sessional hours, one hour equalling thirty periods.

THEORY

JUNIORS.

English

A course of thirty lectures on English Literature and English Composition. The course in Literature will include a discussion of the various types of literature, poetry, the essay, the short story, the novel and the drama, with illustrations from the great writers of these particular types from Chaucer to Kipling. The course in English

Composition will include theory and practice in the use of words, the structure of sentences, paragraphs and whole compositions and the making of reports, both oral and written.

Conference hours for small groups will be arranged at the convenience of assistants and students.

Dr. Cyrus Macmillan 1 hour and a half.

Physics

This course is adapted to problems in physical education, so as to give the students an understanding of the practical applications of physical laws and principles bearing upon their work.

Mechanics (force, work, power, energy, mechanical advantage); *properties of matter* (density, elasticity, cohesion, adhesion, capillarity, surface tension, osmosis, gas laws); *heat* (temperature, specific and latent heat, modes of transfer, effects, humidity); *light* (undulatory theory of electromagnetic waves, source within the atom, laws of reflection, refraction, images with mirrors and lens, photometry); *magnetism* (methods of magnetization, lines of force, poles, law of force, compass); *electricity* (properties of positive and negative charges, electroscope, friction machines, currents, cells, electrolysis, magnetic effects, induction dynamo motor, Ohm's law, Therapeutic uses of electricity).

Professor Reilley, A. V. Douglas 1 hour.

Chemistry

This course will include the fundamental principles requisite for a knowledge of general chemistry. Stress will be laid upon the chemical interpretation of (a) combustion and its relation to respiration, (b) water purification and sanitation, (c) disinfection, (d) pasteurization. Where possible, trips will be arranged for practical demonstrations of the above lectures.

A series of lectures will be given on the phenomenon of solution in its various phases of neutralization, hydrolysis, electrolysis and osmosis. Compounds met with in ordinary daily routine will be discussed and illustrated with experiments. In conclusion, there will be a brief introduction to organic chemistry of general interest.

Dr. MacLean 1 hour.

General Anatomy and Physiology

The purpose of this course is to give the student a clear conception of the human body as a *living mechanism* in which the functions

and structure are inseparably related, and in which the activities of all parts are intimately co-ordinated. As far as possible, therefore, the anatomy and physiology of the various organs and systems are considered together.

After an introductory study of the structure of the body as a whole, the great vital phenomena which distinguish all living organisms are considered and a detailed analysis made of the way in which they are exemplified in man.

In this way the various processes which go to make up the life cycle are taken up; the processes of ingestion, digestion, absorption, assimilation, catabolism, respiration, excretion, irritability and conductivity, movement and reproduction—and the structure of the organs concerned in these functions studied.

Professor Simpson 3 hours.

Osteology and Myology

This course comprises a detailed description of bones, articulation and muscles with special reference to their functions, principles of leverage as applied to muscular action, study of joint movements, surface anatomy, demonstration with aid of skeleton and models.

Dr. Harvey 1 hour.

Voice Development and Training

Special exercises and individual practice in breath control, enunciation, articulation, tone projection, ability to control and conserve the voice in giving commands, instruction and in public speaking.

Mrs. Bragg Half-hour.

Theory of Physical Education

In this course various types and methods of exercise will be studied, *e.g.*, marching, formal, rhythmical, mimetic, hygienic, remedial, corrective, apparatus work, recreational, games, athletics and aquatics. The place in the general plan of physical education and the value of each type will be carefully considered.

A consideration of the choice of various exercises for different types of classes, different ages and different stages of physical and mental development will also be taken up, as well as the adaptation of gymnastics to special conditions, climate, season, special activities, etc.

Dr. Lamb, Miss Cartwright, Miss Harvey, Miss Wain 1 hour.

Class Management and Teaching

This course comprises a study of the various methods of grading and selection of material, physiological and psychological progression, teaching, terminology, construction of lessons, etc.

Miss Cartwright, Miss Harvey, Miss Wain, Mr. Van Wagner, Dr. Lamb — 1 hour.

First-Aid

The endeavour in this course is to give the student a thorough practical knowledge of the correct action to take in cases of emergency.

The treatment of burns, scalds, sprains, dislocations, fractures, shock, hemorrhage, poisoning, etc., also the various kinds and uses of bandages, splints, antiseptics, etc., are carefully considered.

Successful students qualify for the certificate of the St. John Ambulance Association.

Dr. Tees — Half-hour.

Playground Problems

This course will relate the psychological principles to the actual activities of child life and the types of activity best suited for children of varying ages and development; theories of play, etc.

The various phases of playground activities will be specially considered; individual, group and mass athletics, gymnastics, dancing, games, singing, pageants, festivals, story-telling, hand work, raffia, basketry and kindergarten methods.

Special consideration will be given to playground organization, supplies, equipment and management.

Actual practical work and visits to grounds will be conducted.

Dr. Lamb, Miss Hilda Strachan — 1 hour.

Seniors.

Kinesiology and Applied Anatomy

This course will consist of a general review, by means of lectures and demonstrations, of the mechanics of movement of the human machine, also of the classification and analysis of exercise, joint-movements and the action of muscle groups in producing motion.

Dr. Harvey — Half-hour

Psychology

A brief outline of general psychology with special reference to relation between mind and body, and some of the more important principles of educational psychology.

Dr. Tait, Dr. Kellogg 1 hour.

Physiology of Exercise

The object of the course is to study by lectures and practical demonstrations the effects of exercise on the various parts of the body.

The physiological effects of the various types of exercise, muscular contractions and massage; exercises of speed, strength, endurance, skill, static and rhythmical and mechanical exercises and their effect upon the neuro-muscular system, metabolism, respiration, circulation, etc.

The work in this course will supplement and apply the problems studied in physiology to the working power of the human machine, and energy, work, overwork, fatigue, second wind, breathlessness, exhaustion, recovery, training, muscular soreness, co-ordination, and tests for organic efficiency will be studied; thereby enabling the student to understand the underlying principles and to use expert judgment in the selection of the best methods of exercise to employ.

Dr. Lamb 1 hour.

Physical Diagnosis

Lectures and practical demonstrations in the methods of examination for defects of posture and development, especially of the spine and thorax; description of the deformities due to disease; examination by inspection, palpation, percussion and auscultation; tests for sight, hearing, nasal obstruction; examination for dental defects.

Students will be taught to recognize early contagious disease, the more common defects, and when to seek expert advice. Practice in methods of examination will be carried on under supervision.

Dr. Harvey Half-hour.

Remedial Gymnastics

Description of the various postural defects and other abnormalities of development, such as round shoulders, spinal curvature, torticollis, flat feet and their cause.

Lectures, demonstrations and practice in treatment by corrective exercises will be given with special attention to the abnormal condi-

tions found among school children and the preventive measures indicated. A consideration of conditions amenable to treatment by massage will be given in this course. Demonstrations will be carried on at the clinics of the out-patient department of the Montreal General Hospital.

Dr. Harvey Half-hour.

Anthropometry

This course will include the application of measurements and tests to determine the size, state of development and function of the body; comparative study of types with reference to effect of age, sex, race, occupation and environment; measurements which indicate adaptability for various forms of work or exercise and the relation to vital capacity and endurance; demonstrations of the use of anthropometric instruments for size and bodily proportions, and to determine strength and range of movements; graphic methods of representation illustrated, and the use and method of preparing tables of percentages. Actual practice in the use of the above methods will be conducted throughout the course.

Dr. Harvey Half-hour.

Preventive Medicine

The study of Preventive Medicine is taken up under the following heads:—

(a) *Bacteriology and Serology.*

Lectures and demonstrations are given in the study of the more common pathogenic organisms and communicable diseases. Their relation to health is considered in air, water, food, clothing, skin, hair, mouth, etc. Precautions against and means of combating pathogenic organism are studied in, e.g., sterilization, disinfection, pasteurization, vaccination, immunization and general prophylaxis.

(b) *Personal Hygiene.*

A consideration of the functions of the body, its environment, the responsibility of the individual and the means by which health is maintained; the care of the body, sleep, bathing, food, clothing, etc.; problems in sex hygiene of children, adolescents and social hygiene are discussed.

(c) *Public and School Hygiene.*

Health organizations and the means for the maintenance of health; occupational diseases and the effect of various occupations

on health, sanitation, light, heating, ventilation, water supply and drainage, schoolroom inspection, etc.

Dr. Starkey and Miss Cartwright 2 hours.

Theory of Physical Education

A continuation of the course outlined for Juniors.

Class Management and Teaching

A continuation of the course outlined for Juniors.

Organization and Administration

This course comprises a study of various problems in organization and administration, from arranging a simple schedule of competitive events to the organization and supervision of a Department of Physical Education.

Actual visits to study organizations of various types will be made under supervision.

Athletics: Arrangement of schedules, athletic meets, entry blanks, duties of officials, reports and records of games, group activities, classification of competitors; governing bodies; ethics of sport.

Gymnasium: Construction, equipment and care, locker rooms, swimming pools, municipal baths; office management; correspondence, filing, reports; committees, meetings, purchasing supplies, budget, maintenance and repair.

Public and High Schools, Colleges: Medical examinations and records, prescribed work, elective athletics, credits, penalties, leaders, recess, leagues, intra and extra-mural activities, health programmes relation to grade teachers, Supervisors, Principal, School Boards, and other schools.

Social Agencies and Organizations: Related forces, Y.M.C.A., Y.W.C.A.; settlements and welfare organizations with voluntary activities.

Summer Camps: Organization, preparation, site, housing, equipment, supervision, activities, trips.

Winter Sports and Carnivals: Ski-ing, snowshoeing, tobogganing, skating.

Dr. Lamb, Mr. Powter 1 hour.

Child Welfare

A study of child life in all its phases from birth through the difficult period of adolescence; the influences necessary to the normal development of the child in its home, at school, at play and at work; the treatment of dependent, neglected, delinquent and defective children; the child of the unmarried mother; child-welfare legislation.

Dr. Gettys — 1 hour.

History of Physical Education

This subject covers the history of ancient, mediæval and modern physical education—the games and athletics of the Greeks and Romans; the decline of the middle ages and the revival during the Renaissance; the various modern systems, the rise and development of play and recreation and the influence of present day methods on the mental and moral condition of the race.

Miss Cartwright — Half-hour.

PHYSICAL PRACTICE

JUNIORS AND SENIORS.

The practical courses are planned to enable the student to gain not only an adequate knowledge of the numerous activities in physical education, but also to attain a moderate degree of skill in each type and to be able to intelligently teach and direct physical activities.

The student is made thoroughly familiar with the broad underlying principles of practical work and is furnished with ideas and ideals, thereby facilitating the application to any conditions which may arise in the teacher's field of endeavour.

Figure Marching and Marching Tactics:

Methods for handling large and small groups, marching, variations, etc.

Formal and Free Gymnastics—Light and Heavy Apparatus:

Carefully graded exercises, including side and long horse, buck, ropes, boom, balancing beams, ladders, rings, horizontal and parallel bars, box, stall bars, chest weights; dumb-bells, wands, clubs, etc.

Corrective:

Special corrective and posture exercises.

Hygienic:

Exercises producing a maximum of effort in a short time.

Group Activities:

Tumbling, pyramids, etc.

Recreational; Games and Athletics:

The fundamental elements of running, throwing, jumping, climbing, dodging, as they apply to the simple kindergarten games, leading up to the highly organized indoor and outdoor activity for both sexes.

Special subjects in this course may be taken in conjunction with "Playground Problems," thus forming an excellent preparation for those desirous of conducting playground or settlement activities.

Seniors are taught how to coach and judge; rules of competition; how to meet practical problems in the control of games and athletics.

Kindergarten Games.	Dancing.
Simple games for all ages.	Tennis.
Captain Ball.	Ice Hockey.
Dodge Ball.	Fancy Skating.
Volley Ball.	Lacrosse.
Basket Ball.	Soccer.
Indoor Base Ball.	Track and Field Athletics.
Field Hockey.	Winter Sports.
	Fencing.

Dancing:

This course includes folk, national, aesthetic, interpretative and rhythmical dancing. Technique and theory are included, and students are instructed how to teach dancing as a branch of Physical Education.

Aquatics:

There is an increasing demand for teachers who can specialize in this activity; methods of individual and class instruction of breast, back, side, crawl and trudgeon strokes; diving; life saving, methods of release, rescue and resuscitation; water polo, aquatic meets, etc.

Miss Cartwright, Miss Harvey, Miss Wain, Dr. Lamb, Mr. Finlay, Mr. Van Wagner, Mr. Powter, Mr. Shaughnessy. 14½ hours.

Practice Teaching

Great stress is laid on the practice of class teaching in gymnastics, games and dancing. Students are required to submit lessons and then to teach them. In this way timely suggestions and criticisms are offered as experience is being gained in the practical application of the principles of Physical Education.

Students in the Junior year begin by teaching each other, and toward the end of the Session they teach classes in the Day Nursery, the Ladies' Benevolent Society, the Protestant Orphans' Home, etc. Senior students teach in these institutions at the beginning of the Session and in the Public Schools of the Protestant Board of School Commissioners during the last three months of the course.

Students are encouraged to take active charge of classes in Club and Settlement work throughout the Session.

Miss Cartwright, Miss Harvey, Miss Wain, Mr. Powter 2½ hours.

Remedial Gymnastics and Massage

(Seniors only.)

(a) *Active Exercises.*

The classification and practice of movements used for remedial treatment; actual practice in class work; observations in the Hospital clinics.

(b) *Passive Exercise and Massage.*

A consideration of the theory and effects of massage with actual practice in the technique of massage manipulations; contra-indications; methods of treating disease, deformities, fractures, dislocations, sprains, etc.

Dr. Harvey, Miss Hancock, Mrs. Hay 1 hour.

SCHOOL FOR SOCIAL WORKERS

FOREWORD AND HISTORY

There has been a marked growth in recent years of all kinds of social work. The variety of opportunities for service in this field is very great. To those who are interested in human problems it affords a challenging and satisfying vocation. The status of the social worker is secure, for such work is widely recognized as a vital part of community life. The public is spending larger and larger sums of money on social welfare and has a right to expect that those only should be appointed to the work who have made every effort to attain efficiency by careful training.

The Department of Social Service at McGill University grew out of the need for social workers, with a breadth of view and scientific training, for the cities, towns and open country communities of Quebec and the Maritime Provinces. It aims now, however to supply the needs of a much wider field. The Department was founded in 1918, under the Principalship of the late Sir William Peterson. At the outset it was aided financially by the Joint Board of Theological Colleges, the Graduates' Society and two private individuals.

During the first four years, the Department was successfully directed by Mr. J. Howard T. Falk, who resigned to become Executive Secretary of the Montreal Council of Social Agencies and of the Financial Federation. He was succeeded by Dr. Carl Addington Dawson as Head of the Department of Social Science (Sociology), and Director of the School for Social Workers, as the Department of Social Service was re-named.

The Department of Sociology, founded in the Faculty of Arts in 1922, is entirely separate from the School for Social Workers, but many of its courses are accessible to students of the School. Students in sociology desiring to enter social work may complete the diploma course of the School for Social Workers in one year after graduation. The Department offers 12 courses in sociology, and Arts students may take honours in this subject. This year sociology has been placed on the list of graduate studies for the M.A. degree. The appointment of Dr. W. E. Gettys as Assistant Professor of Sociology in 1924 has greatly aided in the extension of the Department's work.

The School for Social Workers is now a member of the Association of Schools of Professional Social Work, which includes schools of social work in the United States and Canada.

EDUCATIONAL AIMS

The Department offers opportunities for training and education to the following groups:—

1. Those who wish to take up social work as a profession.
2. Volunteer workers who wish to get more knowledge and skill in social work.
3. Workers in service who have not had training in a school of social work, or who have had a limited amount of training.
4. Members of boards and social service committees who want a clearer insight into the matters with which they have to deal.
5. All those who want to realize more fully the social obligations of citizenship. It is a chance and a challenge to contribute to the building of Canadian life on a broader and more enduring social knowledge.

THE FIELD OF SERVICE

The trained worker may follow his or her profession (practice of social work) in the following fields:—

Family welfare.

Child welfare.

Work with Girls or Boys.

Immigration Workers.

Institutions for the care of Children or of Adults.

Hospital Social Service.

Social Service with Churches.

Probation Officers.

Clubs, Settlements, Community Work.

Personnel Management.

Government Departments.

Social Welfare Secretaries.

Employment Bureaus.

Social Research.

Y.W.C.A. and Y.M.C.A.

Rural Community Work.

At present the demand for capable persons, who have had education and training in the field of social work, is much in advance of the supply. Social work is a profession for men as well as women, and the School seeks the entrance of a larger number of men to meet the requests that come to it from various agencies.

THE SCIENTIFIC POINT OF VIEW IN SOCIAL WORK

On the remedial side social work helps to readjust the family, or the individual, to normal conditions of life; but its programme of service takes into account the causes of mal-adjustment and attempts to eliminate them. The number of social agencies whose policy and programme is purely preventive is steadily increasing. It is their aim to provide facilities for wholesome personal and social development (broadly covered by community, club, recreational and educational work).

ADMISSION

Candidates for admission are required to make application on a form supplied by the School. Applications should be made as soon as possible to the Secretary of the School.

Students intending to register must first call at the Office of the School for Social Workers.

Diploma Course (Two Years).—A Junior Matriculation Certificate or its equivalent will be required for admission to this course. It is highly desirable that the entrants to the School for Social Workers be college graduates who have studied Sociology; and they are advised to complete their undergraduate work, if at all possible. Students who have a Junior Matriculation Certificate or its equivalent are, however, admitted to the Diploma Course. In exceptional cases the admission of those who have not completed the technical entrance requirements, but whose knowledge, experience and personality single them out as persons of promise, will be considered by the Director.

Types of Previous Experience.—College graduates, graduate nurses with a general education equivalent to matriculation standards, those who have had experience in business, teaching, and church or social work, should take the course successfully. It is very important that all students intending to take the course should have had previous practical social experience as volunteer workers.

Human Qualifications.—In addition to training, it is the human qualifications such as tact, patience, sympathy, poise, cheerfulness and that something which we may term "religion," and which "calls" a

person into social work, that distinguishes the effective from the ineffective. Such may be considered the pre-requisites of an embryo social worker.

AGE.—Persons under 21 and over 35 years of age will only be admitted under exceptional circumstances.

STUDENTS AS UNDERGRADUATES IN ARTS.—Those who are too young to enter the School for Social Workers may take all or part of their undergraduate work at McGill, specializing in the field of Sociology and allied Departments. This gives a fundamental background for social work. Following graduation, they may cover the Diploma Course in one year. During the undergraduate years, it is possible to get practical experience in the settlements and clubs in Montreal.

PARTIAL STUDENTS.—All lectures in the School for Social Workers are open to Partial students, at the discretion of the Director. A statement of standing for courses taken under examination can be obtained from the Director. Examinations are optional.

REQUIREMENTS FOR A DIPLOMA

(The Diploma Course is covered in two years.)

First Year Courses:

History of Social Work.....2 hrs. per week, sess.
Introduction to the Study of Society.....3 hrs. " " "
Introduction to Psychology.....3 hrs. " " "
Social Economics.....3 hrs. " " "
Physical and Mental Health.....1 hr. " " "

Second Year Courses:

Social Case Work.....2 hrs. per week, sess.
Public Hygiene.....2 hrs. " " "
Social Pathology.....3 hrs. " " 1st term
Child Welfare.....2 hrs. " " 1st "
Practical Legal Problems.....1 hr. " " 1st "
The Family.....3 hrs. " " 2nd "
Organization and Administration of Social Agencies.....2 hrs. " " 2nd "
Home Economics.....1 hr. " " 2nd "
Field Work.....2 days per week, sess.

Alternative Courses:

These courses may be substituted for ones already covered; or, if the student plans to do special work along one of these lines, the course may take the place of a Second Year subject.

Playground Problems.....3 hrs. per week, sess.

Delinquency and Crime, and their Social
Treatment.....3 hrs. per week, 2nd term.
The Community, a study of Rural and
Urban Life.....3 hrs. " " sess.
Hospital Social Service.

A student may proceed to the Second Year with any one full course, or its equivalent, unpassed. A certificate of standing can be given on the satisfactory completion of one year's work.

The Diploma of the School is awarded to students who obtain an average mark of 50% and not less than 40% in any one written examination. Students must also receive satisfactory reports from the social agencies in which their field work has been taken.

Students holding degrees, diplomas or certificates from any recognized University will be given credit for courses which they have covered, but the School may require them to take an examination on such subjects.

FIELD WORK

Too much emphasis cannot be laid on the importance of field work as part of the training of a social worker. During the first year of the course, observation trips, attendance at social work clinics and other forms of social contact will take the place of regular field work. Following the close of the academic year, definite field work with the social agencies will begin. This practical experience in social work will be gained with family welfare agencies, hospital social service departments, children's agencies, social settlements, and so forth. The intensive field work of the First Year will be taken in two periods, one month following the examinations in May, and the month of September, before the opening of the School.

In the Second Year two days a week throughout the session, and one month intensively following the session will be given to regular field work.

TIME REQUIRED

A two-year period of training is all too short a time for the preparation of those who are to do personal work with individuals, families and larger groups, and who will come into daily contact with an infinite variety of intricate human problems. The course is, therefore, a minimum preparation for those who intend to become social workers. However, college graduates who have had certain studies in sociology may complete the course in one year. Prospective students of the School, whenever possible, should attempt to complete their college course before entering the field of training for social work.

Students taking the Diploma course cannot expect to do the work of the School satisfactorily unless they give their full time to it. Students must take into consideration the two months of full-time field work between the First and the Second Year, and the one month of field work following the final year of the course, as well as the two regular scholastic years of eight months each. The whole course covers a period of twenty-one months, including the two months of vacation between the First and Second Year.

Students who for special reasons are not able to follow the regular curriculum of the course, may, if those reasons appear satisfactory to the Director, be accorded the status of Limited Diploma students. Such Limited students may distribute their work over three or four years in the course, on the understanding that the sequence and arrangement of courses shall follow the requirements laid down in the regular curriculum.

FEES

For Diploma Students.—The annual fee is $70.00; if paid in two instalments (in October and February) $72.00 (this includes the library fee.)

Other fees payable by women students are as follows:—

Grounds fee	$3.00
McGill Women Students' Society	2.50
McGill Daily	1.50

Students are also required to deposit with the Bursar the sum of $5.00 as caution money, to cover damages done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the Session. Books and other School expenses should not exceed $15.00.

Partial Students.—Partial students will be charged a fee at the rate of $7.00 for an hour a week of instruction during the academic year, but the maximum fee shall in no case exceed the full Diploma fee. Partial students taking three hours or more a week will be required to pay the library fee ($4.00), the grounds fee ($3.00), and deposit $5.00 with the Bursar as caution money.

Extension Course Students and Partial Students taking less than three hours a week of Instruction.—These students desiring to use the University Library will be required to deposit $5.00 with the Librarian to cover damage done to books. This amount, less deductions (if any), will be returned at the close of the Session. A nominal fee, to be arranged by the Committee, will be charged for Extension Lectures.

Fees for the Session 1925-26 in the School for Social Workers may be paid before October 1st or on Friday, October 9th, 1925. They may be paid by cheque, which should be mailed to the Bursar so as to reach him by the last-named date.

BOARD AND LODGING

Accommodation for a limited number of out-of-town students can be arranged for at the University Settlement, 179 Dorchester St. West, fifteen minutes' walk from the University. Rates: $10.00 to $15.00 per month for room alone; $35.00 to $40.00 per month for room and board. Residents are required to give one or two evenings a week to helping in the work of the Settlement.

BURSARIES

A small loan fund is at the disposal of the Committee, from which assistance can be given to a student who would otherwise be unable to take the work of the Department. Loans will be repayable on easy terms.

Applications for assistance from this fund should be made as early as possible.

SCHOLARSHIPS

Among our college graduates, and also among those with a good general education who have been successful in the practical affair of everyday life, there are many promising persons who would perform splendid service in the field of social work. For the benefit of such persons, who might find it very difficult to arrange for an extended period of practical education and training in social work, a few scholarships have been established. These scholarships are for two-year (Diploma) students, and amount to $150 for each of the two years. They will be awarded on a basis of ability, experience, references and financial need.

At present three such scholarships are held by students in the School. These scholarships are named after their donors: The Montreal Women's Club Scholarship, the Notre Dame de Grace Women's Club Scholarship and the Montreal Rotary Club Scholarship.

It is expected that additional scholarships for the year 1925-26 will be open to candidates. Applications should be sent to the Director at an early date.

Prizes are offered for the highest standing in the work of the various courses.

FACILITIES

Montreal as a Social Work Laboratory.—In Montreal, the student can see a large number of social agencies in operation and can know at first hand how experienced social workers help people

to solve their difficulties. It offers a variety of opportunities for the practice of social work under guidance. This is essential to the education of the social worker.

Library.—The School has developed a special library dealing with social problems and social work. These and the other books in the McGill Library are readily accessible.

Lectures.—Apart from the lectures that the student is required to attend, there are many lectures at McGill given by local and visiting professors, eminent public men and others. These are interesting, stimulating and instructive.

Social Life.—All students in the School may become members of the Undergraduate Society of the McGill School for Social Workers, and thus participate in its various social activities and student administration. This society gives the School representation in the Women Students' Society of McGill, and links the students with the larger life of the University. An Alumnae Society has been formed by graduates of the School.

Medical Examination.—After college opens all new students must present a certificate of medical examination. The examination may be made by the student's own doctor or by the University Medical Officer. The latter examination is held free of charge. Students desirous of having the examination made by their own physician, and more especially those coming from out of town, should secure from the Secretary a medical form and have it filled in by their doctor before coming to the University.

Athletics.—Athletic exercises in the form of gymnasium and dancing classes, basket ball, tennis, ice hockey, etc., are available. All students desiring to take part in any of these activities, as well as students coming to the University for the first time, are required to present a satisfactory medical certificate.

COURSES OF LECTURES

I. COURSES IN THE SCHOOL FOR SOCIAL WORKERS

History of Social Work. Two hours.....Miss Reid.

Contributions to social work from Greek, Roman and other civilizations. The social work of the Mediaeval period. The English Poor Law and the beginnings of modern social work. Types and method of social treatment in other countries. The background of modern case work methods.

Social Case Work. Two hours.....Miss Reid.

This course presents, through the study of actual histories, the case method of dealing with social maladjustment. It enables the student to approach, analyze and interpret individual, family and group problems and to recognize the basis upon which to work out a solution. It discusses the function of the different types of social agencies in the working out of a social programme, and offers a practical basis for constructive and preventive social work.

Physical and Mental Health. One hour.

(a) The nature of the physical organism; fatigue, rest and exercise; child hygiene; diseases of respiration; heart diseases; tuberculosis; cancer; skin diseases; venereal disease. Dr. A. S. Lamb, Dr. A. B. Chandler, Dr. A. H. Gordon, Dr. F. Tees, Dr. Gordon Campbell and Dr. R. E. Powell.

(b) Anatomy and physiology of the nervous system; nervous diseases; definition of fallacious sense perceptions; different types of mental diseases—symptoms, causes and treatment of; mental deficiency; conduct disorders of childhood; juvenile delinquency; the psychopathic personality; relation of social work to psychiatry; history and case record making.

References: The Measurement of Intelligence, Terman; Outlines of Psychiatry, W. A. White; Mental Deficiency, Mental Hygiene, Tredgold.

In connection with the course, students will have the opportunity to witness clinical examinations and tests at the Psychiatric Clinic, Royal Victoria Hospital, and the Child Guidance Clinics.....

Dr. Gordon S. Mundie.

Practical Legal Problems.

One hour, first term.....Professor Smith.

1. *Introductory.*—The nature of law evidence.
2. *Domestic Relations.*—(a) Husband and wife; (b) Parent and child.
3. *Industrial Legislation.*—(a) Employer's Liability; (b) Workmen's Compensation; (c) Child Labour Legislation, etc.

Home Economics. One hour, second term.....Miss Philp.

Food in relation to health; the dietetic and economic values of foods; planning menus; family budgets and their use.

Child Welfare.

Two hours, first term.....Assistant Professor Gettys.

A study of child life in all its phases from birth through the difficult period of adolescence; the influences necessary to the normal development of the child in its home, at school, at play and at work; the treatment of dependent, neglected, delinquent and defective children; the child of the unmarried mother; child-welfare legislation.

Organization and Administration of Social Agencies.

Two hours, second term.....Mr. Falk.

Organization; forms of management; responsibilities of a director or trustee; responsibilities of executive secretary; office management; conduct of meetings; charitable accountancy and auditing; financial statements; publicity in social work; financing social agencies; federation in social work.

Public Hygiene. Two hours.....Dr. Macdonald.

The field of preventive medicine; safeguarding water, milk and food supplies; disposal of sewage and refuse; proper methods of ventilating, lighting and heating houses, with special attention to slum property; school hygiene; the prevention of defects, disease dangers, and relation of home conditions to school; industrial hygiene and conditions injurious to the health of workers; infectious diseases and the problem of immunity; governmental regulation and inspection; public health movements and agencies.

Hospital Social Service.

An analysis and presentation of the problems that fall particularly in the field of hospital social service and the application of suitable case-work methods.

(Given when demand is sufficient.)

II. COURSES IN THE SCHOOL OF PHYSICAL EDUCATION

Playground Problems

This course will relate the psychological principles to the actual activities of child life and the types of activity best suited for children of varying ages and development; theories of play, etc.

The various phases of playground activities will be specially considered; individual, group and mass athletics, gymnastics, dancing, games, singing, pageants, festivals, story-telling, hand work, raffia, basketry and kindergarten methods.

Special consideration will be given to playground organization, supplies, equipment and management.

Actual practical work and visits to grounds will be conducted.

Dr. Lamb.....1 hour.

III. COURSES IN THE FACULTY OF ARTS

Introduction to the Study of Society. (Sociology 1.)

Three hours.....Associate Professor Dawson.

Human nature; society and group; isolation and contact; the nature and effects of communication; social forces; competition and the location of the individual in the community; war, racial and cultural conflicts; social control; collective behaviour; social progress.

Introduction to the Science of Sociology, Park and Burgess.

The Community—a Study of Rural and Urban Life. (Sociology 2.)

Three hours.....Associate Professor Dawson.

Methods of studying the community; social anatomy; a comparative study of communities and their fundamental nature; analysis of the underlying forces of the social processes which make for natural groups and institutions (to meet needs: industrial, leisure time, religious, educational, governmental, social agencies); disorganization and reorganization in modern communities; community culture.

Social Pathology. (Sociology 4.)

Three hours, Second Term.....Assistant Professor Gettys.

Statistical and other methods of research; dependency (including poverty); defectiveness; degeneracy; social variation; social unrest and disorder; pathology of play and amusements; crime, delinquency, the gang; family disorganization, desertion; tendencies in the direction of social reorganization. Supplemented by field trips, individual and group studies.

The Family. (Sociology 7.)

Three hours, Second Term.....Assistant Professor Gettys.

The study of the family as a fundamental social institution, its early forms, customs, attitudes, and natural history; sociological interpretation of family relations in rural and urban life; biological, economic, religious, educational, and legal aspects of family life. Present day disorganization and reorganization of family life.

Delinquency and Crime and their Social Treatment. (Sociology 10.)

Three hours.....Assistant Professor Gettys.

A study of anti-social behaviour on the part of both juveniles and adults; case studies; theories and practices in punishment; modern developments in penal treatment.

Introduction to Psychology. (Psychology 1.)

Three hours.....Professor Tait.

Lectures, class experiments and exercises.

Social Economics. (Economics 1.)

Three hours.....Associate Professor Hemmeon.

In this course the greater part of the time will be devoted to the discussion of the production and consumption of wealth. In addition, such matters as factory legislation, trade unions, arbitration, immigration, agencies for promoting industrial harmony, co-operation, socialism, etc., will be considered.

EXTENSION LECTURES

In connection with the Committee on Extension Work, three series of lectures, open to the general public on payment of a small fee, were arranged by the School for Social Workers. The first consisted of ten lectures on Social Work, and was largely attended by members of the Junior League.

The second series consisted of 24 evening lectures given by Dr. W. E. Gettys and Miss May Reid. They were attended by a large group of social workers, who participated in the discussions on the problems presented.

The third group of lectures, held in February, consisted of four lectures on "Social Problems." This latter series, which is held annually, gives to the larger public an opportunity to hear some of the most recent and vital aspects of questions concerning social work and community life discussed by prominent leaders and research students in this field. The series for 1924-25 was as follows: "The Possibili-

ties and Limits of Scientific Prevision in Human Affairs," Dr. Richard Cabot; "The Failure of the Home, its Cause and Cure," Judge Charles Hoffman; "Human Welfare within Prison Walls," Thomas Mott Osborne; "The Present Impasse of Democracy," Dr. Ira A. Mackay.

The School is ready to arrange special series of popular lecture courses in the social field for churches, schools, social agency boards, social service committees, community, neighbourhood and other groups. It is also ready to arrange social clinics for interested groups.

SCHOOL FOR GRADUATE NURSES

GENERAL STATEMENT

The School for Graduate Nurses was opened in 1920 to provide training for Public Health Nurses and to prepare nurses for administrative and teaching work in hospitals and schools of nursing.

The establishment of the School for Graduate Nurses was made possible by the generosity of the Quebec Provincial Red Cross Society, which agreed to finance the undertaking for three years. In October, 1924, satisfied that the School for Graduate Nurses is doing work of value to the Community, the University became responsible for its maintenance.

During the session of 1924-25 a new course of study was offered: Supervision in Schools of Nursing. This was arranged in order to meet the needs of nurses not qualified to enter the course in Administration, but wishing to prepare for positions as Supervisors or Assistants in Schools of Nursing.

Sixty-five students have graduated from the School and the majority of them are filling positions of importance in Schools of Nursing or in Public Health Nursing.

Each year, besides the students taking full-time courses leading to a certificate, a number of partial students have been registered. In this way nurses on the staff of one or other of the local hospitals, of the Victorian Order of Nurses, the Metropolitan Life Insurance Co., and the Child Welfare Association have profited by the opportunities offered in the School.

AIMS OF THE SCHOOL

The courses offered in the School for Graduate Nurses are designed to prepare qualified nurses to act as instructors, supervisors, assistants or superintendents in training schools for nurses; as superintendents of small hospitals; and as public health nurses. The hope and aim of the School is to send out teachers and leaders, who, whether by helping to improve the methods and raise the standards of nursing education in Canada, or by doing efficient work in the varied fields of public health nursing, may alike serve the community as health workers.

"Superintendents, supervisors, instructors, and public health nurses should in all cases receive special additional training beyond the basic nursing course." (Conclusion 7, Report of the Committee on Nursing Education, Rockefeller Survey.)

COURSES OFFERED IN THE SCHOOL FOR GRADUATE NURSES

A.—PUBLIC HEALTH NURSING

This branch of nursing is developing all over Canada. The field of Public Health Nursing is ever widening, the interest of such work is beyond question, and the need of qualified workers is very great. In addition to visiting nursing, which is the oldest branch of this work, there are school nursing, infant welfare work, industrial nursing and social and mental hygiene work and many other activities, all concerned with the prevention of disease and the promotion of better standards of health.

The nursing education and experience given in the majority of training schools for nurses are not sufficient to meet these new demands. Public health nursing is largely preventive, social, and educational in character, while the training given is chiefly of a remedial nature.

Extract from Conclusion 1 of the Report of the Committee on Nursing Education, Rockefeller Survey:—"That as soon as may be practicable all agencies, public or private, employing public health nurses, should require as a pre-requisite for employment the basic hospital training, followed by a post-graduate course, including both class work and field work, in public health nursing."

PROGRAMME OF STUDY

The following programme is planned to give a fundamental preparation for generalized or special forms of public health nursing:—

Required:—

Principles of Public Health Nursing.
Special Health Problems and Special Fields of Public Health Nursing.
Preventive Medicine.
Bacteriology.
Child Hygiene
Elementary Psychology.
Principles of Teaching.
History of Nursing.
Elements of Social Science.
Nutrition.
Field Work, Public Health Nursing.

Electives:—Social Psychology, Child Welfare, Physical Diagnosis, Control of Communicable Disease, Neuro-Psychiatry, Public Speaking.

B.—TEACHING IN SCHOOLS OF NURSING

The need of qualified instructors for Schools of Nursing is being very generally realized as the necessity for improved educational methods in the training of nurses becomes increasingly apparent. The demand for such instructors is still in excess of the supply.

PROGRAMME OF STUDY

Required:—

Introduction to Psychology.
Educational Psychology.
Introduction to Sociology.
Principles of Teaching.
Teaching in Schools of Nursing.
Teaching in Schools of Nursing with Practice Teaching.
Supervision of Schools of Nursing.
Teaching of Nursing Methods.
Elements of Chemistry
Preventive Medicine.
Bacteriology.
Neuro-Psychiatry.
History of Education.
History of Nursing.

Electives:—Elementary Psychology, Anatomy and Physiology, Nutrition, Child Hygiene, Materia Medica, Social Psychology, Public Speaking.

A selection from the above-named subjects may be taken as a one year's course leading to a certificate.

C.—ADMINISTRATION IN SCHOOLS OF NURSING

This course is planned to prepare experienced women of superior qualifications for positions as superintendents in Schools of Nursing, or as superintendents of small hospitals.

PROGRAMME OF STUDY

Required:—

Administration in Schools of Nursing.
Hospital Administration.
Current Problems in the Education of Nurses.
Supervision in Schools of Nursing.
Elementary Psychology.
Elements of Social Science.

Principles of Teaching.
Teaching of Nursing Methods.
History of Nursing.
Child Hygiene.
Preventive Medicine.
Nutrition.

Electives:—Neuro-Psychiatry, Bacteriology, The Family, Introduction to the Study of Society, Control of Communicable Disease, Elements of Social Science, Public Speaking.

D.—SUPERVISION IN SCHOOLS OF NURSING

As training schools for nurses are gradually being organized on an educational basis, the need for specially prepared nurses to act as Assistant Superintendents and Supervisors is recognized.

PROGRAMME OF STUDY

Required:—

Elementary Psychology.
Principles of Teaching.
Elements of Social Science.
Neuro-Psychiatry.
Preventive Medicine.
Nutrition.
History of Nursing.
Child Hygiene.
Supervision in Schools of Nursing.
Special Problems in Supervision.
Current Problems in the Education of the Nurse.
Teaching in Schools of Nursing.

Electives:—Control of Communicable Disease, Bacteriology, Public Speaking, Child Welfare, Materia Medica.

REQUIREMENTS FOR CERTIFICATES OR DIPLOMAS

Length of Courses:—The courses in Public Health Nursing, Supervision in Schools of Nursing and Administration in Schools of Nursing, cover one academic year and lead to a certificate.

The course in Teaching in Schools of Nursing leads to a diploma and requires two academic years unless the student brings advanced credit from a University or normal school.

A certificate of partial completion of the Teacher's Course is given on the successful completion of one year's work.

The minimum period of residence for a certificate or diploma is one year.

A certificate or diploma course requires fourteen hours weekly or the equivalent throughout the academic year. (Two hours laboratory equals one hour lecture.)

EXAMINATIONS

Certificates or diplomas are awarded to students who obtain an average mark of 50 per cent in all examinations and not less than 40 per cent. in any one examination.

In the case of students who do field work, satisfactory reports must also be received from the agencies with which their field work has been taken.

Examinations are held in some subjects at the end of the first term and final examinations are held in May. The School closes at the end of May.

ADMISSION REQUIREMENTS, REGISTRATION, SCHOLARSHIPS AND FEES

ADMISSION REQUIREMENTS

Nurses desiring to enter for any course given in the School for Graduate Nurses must present:

1. (a) For the course in Public Health Nursing, evidence of having completed three years of High School work or of equivalent education; (b) For the Instructor's course, evidence of a complete High School education or of an equivalent which is adequate to the requirements of the University; (c) For the course in Administration, evidence of having completed three years of High School work or of equivalent education, and in addition, of having held satisfactorily, subsequent to graduation, for at least one year, a position which has demonstrated fitness for responsible executive work of this kind.

2. Evidence of the satisfactory completion of a course in a Nurses' Training School of approved standards connected with a hospital of at least fifty beds and covering a complete general training of at least two years. Nurses must be registered when coming from a State or Province where registration is in force, and must be eligible for membership in the Canadian National Association for Trained Nurses.

MEDICAL CERTIFICATES

As the work demands continued and concentrated effort, students must be in good physical condition, and must present a medical certificate to that effect.

All students entering the University for the first time are required to present a certificate, or other satisfactory evidence of successful vaccination, failing which, they shall at once be vaccinated in a manner satisfactory to the authorities.

Application for admission should be made during the spring and early summer, if possible. For application blanks and further information, write to the Director, School for Graduate Nurses, McGill University.

Partial Students:—Qualified nurses may register for certain courses, with the consent of the Director.

REGISTRATION AND RESIDENCE

Students in Public Health Nursing who have not had experience in Public Health work will register September 15th, for two weeks' field work, with the Victorian Order of Nurses and the Child Welfare Association.

Other students will register on September 28th and 29th.

The opening lecture will be held on September 30th.

Students are required to consult the Director at the time of registration.

Addresses of boarding houses may be had from the Director.

COURSES OF LECTURES

1. Supervision in Hospitals and Training Schools.

Lectures, Conferences and Excursions:—Course designed for teachers and supervisors who require a general knowledge of organization and administration in hospitals and training schools. It deals with the relation of departments to each other, and with the ordinary problems of training student nurses, and the preparation of ward records and reports.

Two hours.....Miss Shaw and Miss Samuel.

2. Special Problems in Supervision.

Lectures, Conferences and Field Work:—A course specially arranged for students taking course D.

One hour throughout session.

Field Work, 2nd term.....Miss Shaw and Miss Samuel.

3. Hospital Administration.

A.—Lectures and Observations:—The particular problems of hospital administration and housekeeping, the furnishing and equipment of wards and other departments; organization of service in each; duties, salaries and conditions of life and work; province and duties of heads of kitchens, laundries, linen and supply rooms, and the handling of goods, linen, household and surgical supplies.

One hour and a half, 2nd term.....Dr. Haywood.

B.—Round Table Conferences.

Half hour, 2nd term.....Miss Shaw.

4. Administration in Schools of Nursing.

A.—Lectures and Conferences:—This course deals with the problems of training school organization and management; the qualifications, personality, and training of superintendent or principal; her responsibilities; the arrangement, control, and supervision of practical work, in wards or other hospital departments; the direction of assistants and ward staff.

Two hours, 1st term.....Miss Shaw and Miss Samuel.

B.—Excursions and Field Work.

Two hours, 2nd term.....

5. Teaching in Schools of Nursing.

A.—Lectures and Conferences:—This course deals primarily with the curriculum of the nursing school, outlining the aims to be achieved through the course of study, the selection and arrangement of subjects in the curriculum, the general content of each, the special methods of teaching suitable in the various subjects, the selection and use of text and reference books, and other teaching materials.

Two hours.....Miss Shaw

B.—Observation and Practice Teaching.
One hour, 2nd term.....

6. Teaching of Nursing Methods.

A course especially for students intending to teach Practice of Nursing, either as Instructors or Supervisors.

One hour, 2nd term.....

7. Current Problems in the Education of Nurses.

Lectures, Readings:—This course deals with special problems in nursing education. Questions of standardization, health and social aspects of student life, affiliations, etc., are considered.

One hour, 2nd term.....Miss Shaw.

8. Principles of Public Health Nursing.

(a) Lectures, Recitations. (b) Excursions and Conferences:—Intended to give a general grasp of the nursing problems to be met with in private families; the measures to be followed to relieve immediate needs; and to teach hygiene, preventive methods, and the handling in the home of acute, chronic, or communicable disease. The organization and supervision of the various types of public health nursing are also considered.

Two hours.....Miss Slattery.

9. History of Public Health Nursing.

One hour, 2nd term.....Miss Slattery.

10. Special Health Problems and Specials Fields of Public Health Nursing.

School nursing, pre-natal, maternity, industrial, and other special types of public health work are considered.

One hour.....Special lecturers.

11. History of Nursing.

A.—Illustrated Lectures, Reading:—Deals with the origin and historical development of nursing under monastic, military and secular control—Florence Nightingale, her successors.

One hour, 1st term.....Miss Slattery.

B.—Lectures and Recitations.

Modern nursing in various countries — nursing organizations — registration—state regulation.

One hour, 2nd term.....Miss Shaw and Miss Slattery.

12. Materia Medica.

Lectures and Demonstrations:—This course includes a discussion of drugs, their sources, crude forms, and preparation, with laboratory demonstrations; proper methods of administration, with physiological, therapeutic and toxic action.

One hour, 2nd term.....Dr. Rosenthal.

13. General Anatomy and Physiology.

Lectures and Laboratory Work in order to give the student a clear conception of the human body as a *living mechanism,* in which the function and structure are inseparably related, and in which the activities of all parts are intimately co-ordinated. The anatomy and physiology of the various organs and systems are considered together.

The purpose of the Course is the preparation for teaching these subjects in Schools of Nursing.

Three hours.....Prof. Simpson and Dr. Jackson.

14. Nutrition and Cookery.

Lectures, Recitations and Demonstrations—elements of nutrition and dietetics:—This course describes the essentials of an adequate diet, and the nutritive properties of common food materials. The application of such knowledge to the feeding of individuals and family groups is discussed, with special reference to limitations of cost.

One hour.....Miss Perry.

15. Preventive Medicine.

Lectures and Demonstrations:—The course deals with—

(a) The relation to health of air, water, food, clothing, skin, hair, mouth, etc.
(b) Personal Hygiene.
(c) Public and School Hygiene.
(d) Vital Statistics.

Two hours.....Dr. Starkey.

16. Bacteriology.

Classes and laboratory work:—The study of the more common pathogenic organisms. Use of microscope, moulds, yeasts, bacteria, media, bacteria and diseases, bacteriology of milk and water; defences of the body against pathogenic bacteria; applications of bacteriology.

Three hours.....Dr. Macdonald and Dr. Jones.

17. Child Hygiene.

Principles of pre-natal care; prevention of blindness; importance of breast feeding; infant welfare clinics; the pre-school age child; detection of physical defects; oral hygiene; child welfare and health centre work.

One hour, 1st term.....Dr. Chandler.

18. Control of Communicable Disease.

Lectures, Clinics and Excursions:—The course deals with methods of applying modern scientific medical knowledge in the prevention of disease. It considers the causes of prevalent communicable disease, such as tuberculosis, typhoid fever, scarlet fever, diphtheria, and the venereal diseases; measures for prevention and methods of control and care.

One hour.....Dr. Byers, Dr. Cushing, and other lecturers.

19. Neuro-Psychiatry and Mental Hygiene.

Definitions of fallacious sense perceptions, such as hallucinations, illusions, delusions, different types of mental diseases, symptoms, causes and treatment of; mental deficiency; epilepsy; differential diagnosis of organic and functional nervous diseases; juvenile delinquency; the psychopathic personality; relation of psychiatry to industry; relation of social work to psychiatry; history and case record making.

One hour, 1st term.....Dr. Mitchell.

20. Elementary Psychology.

A brief outline of general psychology.

One hour.....Professor Tait.

21. Principles of Teaching.

The aims of education for the individual, society, nursing schools; when and how do pupils really learn?; education as habit formation; the training of memory; how can we test the progress of learning?; how do pupils get hold of new ideas?; how can we get our pupils to pay attention?; how can we get vivid impressions on our pupils' minds?; the fine art of questioning; how to make a lesson plan; types of teaching; what part can other pupils play in teaching?

Two hours, 2nd term.....Dr. Best.

22. History of Education.

The purpose of the course is to present the essential features of the educational thought of the past as this has been shaped by economic, social, political and religious causes.

One hour, 1st term.....Dr. Best.

23. Public Speaking.

Lectures, debates, etc.

One hour, 2nd term.....Mrs. Bragg.

24. The Elements of Social Science.

Society, human nature, group life; geography, race, sex and human conduct; man's behaviour controlled by neighbourhoods, communities, races, and other groups: the resultant customs, folkways, attitudes and standards; the nature of the chief institutions (family, industry, school, church, state, play, etc.); forces making for social change; leadership and progress.

One hour.....Associate Professor Dawson.

25. Field Work in Public Health Nursing.

Excursions, Observations and Practice.

This work is arranged with various health organizations, as follows:—

(a) The Social Service Departments of the Royal Victoria Hospital, the Montreal General Hospital, and the Children's Memorial Hospital.

(b) The Outremont and City School Nurses, by courtesy of the Departments of Health.

(c) The local Child Welfare Association.

(d) The Health centres of the Montreal Anti-Tuberculosis and Health League.

(e) The Royal Edward Institute.

(f) Family Welfare and other social agencies.

(g) The local branch of the Victorian Order of Nurses.

One month for field work in Visiting Nursing.

For this work it will be necessary for each student to provide herself with a wash dress, long coat and plain hat.

One and one-half days weekly throughout the academic year.

Five weeks' intensive work is arranged before the opening and after the close of the session.

COURSES GIVEN IN THE FACULTY OF ARTS

Introduction to the Study of Society.

Human nature; society and the group; isolation and contact; the nature and effects of communication; social forces; competition and the location of the individual in the community; war, racial and cultural conflicts; social control; collective behaviour; social progress.

Three hours.....Assistant Professor Dawson.

The Family.

The study of the family as a fundamental social institution, its early forms, customs, attitudes, and natural history; sociological interpretation of family relations in rural and urban life; biological, economic, religious, educational, and legal aspects of family life. Present day disorganization and reorganization of family life.

Three hours.....Assistant Professor Gettys.

Introduction to Psychology.

Lectures, recitations and reports.

Three hours.....Associate Professor Kellogg.

Social Psychology.

Lectures, prescribed readings and reports.

Three hours.....Professor Tait.

Educational Psychology.

Lectures, prescribed readings and reports.

.....Associate Professor Kellogg.

COURSES GIVEN IN THE SCHOOL OF PHYSICAL EDUCATION

Physical Diagnosis.

Lectures and practical demonstrations in the methods of examination for defects of posture and development, especially of the spine and thorax. Description of the deformities due to disease. Tests for sight, hearing, nasal obstruction. Examinations for dental defects, enlarged tonsils and adenoids.

One hour, 2nd term.....Dr. Harvey.

Chemistry. Lectures and Demonstrations.

One hour.....Dr. MacLean.

COURSES GIVEN IN THE SCHOOL FOR SOCIAL WORKERS

Social Case Work.

Principles, objective and method of case work, with special emphasis on actual case studies; adequate knowledge as a basis for judgment and action in effecting individual adjustments; how obtained and applied; relief—its place in case work; the relation of case work to the community; records; the use and purpose of records; record making; forms; correspondence, etc.

Two hours.....Miss May Reid.

Child Welfare.

Influences necessary to the normal development of the child in its home, at school, at play and at work; the treatment of dependent, neglected, delinquent and defective children; the child of the unmarried mother; child-welfare legislation.

Two hours, 1st term.....Assistant Professor Gettys.

DEPARTMENT OF PHYSICAL EDUCATION

FOR MEN

DIRECTOR, DEPARTMENT OF PHYSICAL EDUCATION:—ARTHUR S. LAMB.
UNIVERSITY MEDICAL OFFICER:—F. W. HARVEY.
ATHLETIC MANAGER:—MAJOR D. S. FORBES, M.C.
TRACK COACH AND ASS'T. PHYSICAL DIRECTOR:—F. M. VAN WAGNER.
RUGBY AND HOCKEY COACH:—F. J. SHAUGHNESSY.
SOCCER, GYMNASTIC COACH AND ASSISTANT PHYSICAL DIRECTOR:—HAY FINLEY.

All students, on entering the University, are required to pass a physical examination. By such an examination, any physical defect or weakness may be discovered early, and the student will be advised in regard to treatment. For those defects amenable to treatment by exercise or other hygienic measures, individual attention will be given, and the student will be advised as to what forms of exercise will be likely to prove beneficial or harmful.

I. GENERAL

The aim of the University requirements in physical education is the maintenance and improvement of the physical well-being of the student body, and the production of graduates who are physically as well as mentally fitted for their life-work.

As voluntary exercise is of greater value than compulsory, great latitude is given the individual student in his choice of the type of activity.

The chief factors limiting this choice are:—

1. The suitability of the exercise as a means of physical education.
2. The physical fitness of the individual student to take the form of exercise chosen.
3. The possibility of effective supervision.
4. The practicability of ensuring regular participation.

The aim is not to replace the existing forms of University athletics, but to assist in developing an interest in these by every legitimate means.

II. REGISTRATION

1. At the time of registration every male student of the first three years in the Faculties of Arts, Medicine, Dentistry and Science and of the first two years in the Faculty of Law shall be given a printed announcement of the University requirements in physical education.* This announcement shall include a list of the recognized forms of

2. At the time of his medical examination, each student shall be required to fill in a card indicating his choice, as outlined in paragraph III, 1. The Director shall then decide as to his physical fitness for the form chosen and shall inform the student of his decision and note the same on his card, which shall be filed for reference.

3. Every student shall be categorized by the University Medical Officer as either:—

(A) Fit for all forms of physical exercise.

(B) Fit for a limited number of forms.

(C) Fit for gymnasium work only.

(D) Fit for remedial gymnastics, or temporarily unfit.

(E) Unfit for any forms of physical exercise.

III. EQUIVALENTS

1. Subject to paragraphs 2 and 3 the following activities are recognized as fulfilling the requirements:—University basketball, boxing, wrestling and fencing, English rugby, golf, gymnastic classes, harriers, hockey, indoor baseball, rugby, ski-ing and snowshoeing, soccer, swimming and water polo, tennis, track and field teams, the McGill C.O.T.C., and such other activities as shall be decided upon from time to time by the Committee on Physical Education.

2. Subject to the approval of the Director, as laid down in paragraph II. 2, any student who desires to participate in competitive athletics, as mentioned in paragraph III, 1, may be excused from other forms of exercise during the season of training, provided that this is performed to the satisfaction of the Director.

**Note.*—For the session 1925-26 and until further notice this regulation will apply to students of the first two years only in the Faculties of Arts, Science and Dentistry.

physical activities in which a student may take part in fulfilment of the requirements, and a statement that at the time of his medical examination he will be expected to indicate his choice of the particular forms which he wishes to follow.

3. If successful in making a place on the team, he shall be excused from any other forms of exercise for the season of play, and *may* be excused for the remainder of the term at the discretion of the Director.

4. Any student who has been placed in Categories A, B, C or D at his University medical examination, and who does not voluntarily take part in any of the other recognized forms of exercise as provided above, shall be required to attend the regular gymnasium classes appropriate to his category.

IV. ATTENDANCE.

1. The amount of time required to be devoted to physical exercise by each student shall be two hours per week throughout the session. Until such time as the University is in possession of its own gymnasium, however, this amount of time may be reduced by the Committee on Physical Education to meet the exigencies of gymnasium accommodation.

2. A record will be kept of the attendance of every student as far as his required physical work is concerned.

3. Medical certificates covering absences which are accepted by the Dean of the Faculty concerned will be accepted by the Department, but if the student is able to attend lectures the question of his fitness to take part in physical exercise shall rest entirely with the Director and the University Medical Officer. Medical certificates covering absences from the University must be presented to the University Medical Officer by the student within one week after his return to University work.

4. Unexcused absences up to one-eighth of the required number of periods shall be allowed. Unexcused absences exceeding one-eighth, but not exceeding one-fourth, may be allowed if at the end of the session the student passes a special examination and satisfies the Director that he has made sufficient progress. Unexcused absences exceeding one-fourth shall disqualify a student. Such students shall be required to take extra gymnasium class work to the satisfaction of the Director, a supplemental course being given in the month of September for this purpose.

5. Excuses will be granted for absences due to participation in Intercollegiate Athletics as follows:—

(*a*) For all fixtures under the jurisdiction of the C.I.A.U.

(*b*) For a maximum of one fixture for each sport not under the jurisdiction of the C.I.A.U. This fixture must first be specially approved by the Athletic Board, the names of proposed players being submitted to the Faculty previous to the game. The Faculties concerned may not approve of granting excuses from lectures to any whose academic standing does not warrant such an excuse.

In order to secure exemption from attendance on the above grounds Managers must fill out and certify to the facts on the special forms provided for this purpose and deposit them within seven days at the office of the Department of Physical Education.

6. At regular intervals during each session and also at the end of each session, the Director of Physical Education shall furnish the Dean of each Faculty with a list of students who have failed to meet the attendance requirements as laid down in the ordinary curriculum, or who have proved unsatisfactory in other respects, and such cases shall be dealt with by the respective Faculties.

7. No student in default shall be allowed to proceed to the next year of his course unless for special reasons exemption should be granted on the recommendation of his Faculty and approved by the Committee on Physical Education.

8. Not less than one month before the conferring of degrees in each session the Director shall furnish to the Registrar of the University, for transmission to Corporation and the Faculties concerned, a list of all students, being candidates for degrees at the forthcoming Convocation, who have failed to satisfy the requirements of the Committee on Physical Education, and no Diploma for a degree shall be issued to any such candidate unless by the express direction of Corporation.

V. EXEMPTIONS

Claims for exemption from the above requirements shall be made in the first instance to the Director, who shall refer them to a subcommittee on exemptions appointed by the Committee on Physical Education.

VI. COLLEGE GROUNDS AND ATHLETICS

The management of the College grounds, all Physical Education, including athletics and sports, is under the control of the Standing Committee on Physical Education. This Committee is responsible for the general maintenance of all University grounds, and retains the ultimate authority and power of supervision in all matters affecting athletics in the University. All matters which may in any way affect athletics must be referred to the Athletic Board, and its approval must be obtained before any departure is made from the authorized routine. The Athletic Board reports to the Committee on Physical Education.

The Athletic Board is responsible for the organization, administration and supervision of the entire athletic programme. The composition of the Board is as follows:—The Principal of the University, Chairman,

the Bursar, three members of the teaching staff, three graduates, one of the Stadium guarantors and three undergraduates. The Athletic Manager is Secretary of the Board. Intra-mural and Intercollegiate competitions are conducted in the following sports:—Basketball, Boxing, Wrestling and Fencing, English Rugby, Golf, Gymnastics, Harriers, Hockey, Indoor Baseball, Rugby, Ski-ing and Snowshoeing, Soccer, Swimming and Water Polo, Tennis, Track and Field.

All students of all years must, during the current session and prior to participation in competitive athletics or otherwise engaging in athletic practice or competition, have passed the University medical examination and have received an appropriate category. Those students taking part in Intercollegiate competition must first complete the C.I.A.U. eligibility form for each sport.

All students in good standing who are taking a course of study held to be sufficient by a special committee of the Faculty in which they are enrolled will be allowed to take part in athletics, subject, however, to the general regulation regarding medical examination.

Suspension from lectures for any cause, or absence from more than one-eighth of the total number of lectures given in any course, as shown by the monthly reports furnished to the Dean of each Faculty by the several professors and lecturers, shall be considered as sufficient ground to disqualify a student from engaging in athletic contests.

The managers, coaches and captains of clubs, or other responsible executive officers, are required to insist upon the strict observance of the rule in regard to medical examination and all the rules and regulations of the Committee which concern them.

All clubs must submit their regulations, rules, and by-laws, and any changes in the same, for the approval of the Board. They must make application for the use of such portions of the grounds as they require, and for any special privileges.

During the session and including the Christmas holidays, *all teams and individual students desiring to participate in "outside athletics"** must first apply in writing through the Manager or Coach of the club concerned, who must secure the permission of the Athletic Manager, by whom all such sanctions are granted.

Should any student take part in any athletic contest not having been sanctioned as above, or who is not personally qualified under the regulations regarding eligibility, medical examinations, etc., such student

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*Outside athletics is interpreted to mean those forms of athletics over which the Athletic Board of the University or the Canadian Intercollegiate Athletic Union does not have control.

shall be immediately debarred from participation in all University athletics. He shall be reported to the Athletic Board, which body shall, if it sees fit, request the offender to withdraw from the University, if the consent of the Principal has been given, until Corporation shall meet to deal with the matter.

(For further regulations see handbook published by the Athletic Board.)

All students of the University are required to pay a fee of ten dollars ($10.00) for a book of general admission tickets to all home games and for the use of the grounds (this is included in the general fee of $17.00 paid by undergraduates). The amount so paid is credited to the Athletic Board, and is by this body expended in the interest of College athletics, under the general direction of the Committee on Physical Education.

The amount derived as grounds and athletics fees from the students of the Royal Victoria College is placed at the disposal of the Committee on Physical Education, for expenditure in the interest of women-students.

The annual sports of the University are held on the third Friday of October each year. The day is observed as a holiday.

VII. HEALTH

Provision is made by the Department for the care of the health of undergraduate students during the session. Hospital accommodation, when requisitioned for by the Department, is provided without cost to the student, for seven days only, except under special circumstances.

A special leaflet concerning this service and the general work of the Department will be supplied to all students at the opening of the session.

VIII. MEDALS.

The Wicksteed silver and bronze medals for physical education (the gift of the late Dr. R. J. Wicksteed) are offered for competition to students of the graduating class and to students who have had instruction in the gymnasium for two sessions; the silver medal to the former, the bronze medal to the latter. The award of these medals is made by judges appointed by the Corporation of the University. Every competitor for the silver medal is required to lodge with the judges, before the examination, a certificate of good standing in the graduating class, signed by the Dean or Registrar of the Faculty to which he belongs, and the medal will not be awarded to any student who may fail in his examination for the degree.

IX. STRATHCONA CERTIFICATE COURSE.

The Departments of Education and Physical Education offer the following courses for men undergraduates of the Fourth Year:—

A course of 45 hours on the principles and practice of physical education. The course will cover elementary anatomy, physiology and hygiene, the theory of gymnastics and class teaching.

Students who satisfactorily complete this course are entitled to certificate "B" of the Strathcona Trust.

FOR WOMEN

(ROYAL VICTORIA COLLEGE)

DIRECTOR OF THE DEPARTMENT:—A. S. LAMB, B.P.E., M.D.
UNIVERSITY MEDICAL OFFICER:—F. W. HARVEY, B.A., M.D.
PHYSICAL DIRECTOR FOR WOMEN:—MISS ETHEL M. CARTWRIGHT.
ASST. PHYSICAL DIRECTOR FOR WOMEN:—MISS RUTH HARVEY.
ASST. PHYSICAL DIRECTOR FOR WOMEN:—MISS ETHEL WAIN.

Classes in educational gymnastics for all undergraduates of the College and for resident students of music are conducted in the gymnasium of the Royal Victoria College. All students on entering the University are required to pass a physical examination (see regulation on page ?) and are also required to pass satisfactory physical tests before taking part in any of the outdoor or indoor physical exercises organized by the Department, whether educational, remedial or recreational.

Work in the Physical Education Department throughout the four-year course (amounting to 140 hours in all) is required of all undergraduate students in the Faculties of Arts and Music.* These periods will be used for instruction in personal hygiene and for educational, remedial and recreative gymnastics, according to the physical requirements of the individual. No student will be asked to do work unsuited to her physique, and students debarred from exercise of any kind will be dealt with separately and carefully advised.

Classes in Physical Education required of women students in other faculties than the Faculty of Arts are also held in the gymnasium of the Royal Victoria College.

Partial students are admitted to the classes in educational and recreative gymnastics on payment of a fee of $5.00.

Reports of attendance in physical education will be regularly sent to the Faculty.

Strathcona Prizes.—Three first prizes valued at $8, $10 and $12, and three second prizes valued at $5, $6 and $9, are open to students

for competition in the Second, Third and Fourth Years respectively. Two prizes of $5 are offered for competition to the students of the First Year; one for students who have taken part in educational gymnastics at school, and the other for students who have had no previous physical training.

All competitions will be held under the following regulations:—

1. Competitors will be awarded 50 per cent. of the marks on the work of the session.

2. No prize shall be awarded unless the judges consider the work up to the standard of 75 per cent.

3. The prizes shall not be awarded in the Second, Third and Fourth Years should the winner fail to obtain her full academic standing. The prizes in the First Year shall not be awarded if the winners fail in more than one subject at the sessional examinations.

4. Competitors will be judged on the work taught in the Physical Education Department during the session, the Physical Director for Women arranging all details concerning the competition. A programme of the competitions will be posted not later than March 1st.

5. Judges for these competitions shall be appointed yearly by the Committee on Physical Education.

*In all cases of absence the student is required to report to the Physical Director for Women. The ordinary interpretation of the one-eighth rule concerning absences does not apply in this Department. Every student is required to wear the costume recommended by the Department.

STRATHCONA CERTIFICATE COURSE

A course similar to that announced on page 492 is given for the women undergraduates of the Fourth Year.

MILITARY TRAINING

CANADIAN OFFICERS' TRAINING CORPS
(McGill University Contingent)
HONORARY COLONEL:—GENERAL SIR A.W. CURRIE, G.C.M.G., K.C.B., LL.D.
LIEUT.-COL:—ASSISTANT PROFESSOR R. R. THOMPSON.

In order to train undergraduates that they may become men fitted to hold His Majesty's Commissions, a contingent of the Canadian Officers' Training Corps was organized at McGill University two years before the Great War. The contingent is a unit of the Active Militia, being governed by special regulations, under which it cannot be called

out for active service as a unit. During the Great War it did splendid service, and many of its members appeared in the rolls of honour.

The training is intended to bring the largest possible number of students up to the standard required for the two certificates:—A, a Lieutenant's, that is, a man fit to command a platoon; and B, a Captain's, that is, a man fit to command a Company. The value of these certificates lies in their showing that the candidates have satisfied a board of regular officers at practical examinations that they have developed properly their powers of command, know how to give orders to other men, can retain their self-possession, and can act promptly on their own initiative in a sudden emergency; and further that they have passed the written examinations, in which candidates must show a thorough knowledge of topography, how to organize and look after the welfare of men under their command, and so on. If a member is recommended for a commission in the Active Militia of Canada, or the corresponding military force in any other part of the Empire, the possession of one of these certificates entitles him to promotion to the rank denoted, as soon as there is a vacancy, without any further examination, and also to certain other advantages.

To obtain a Certificate A (Lieutenant's) a member must complete one year's efficient service in the corps, and in the case of Certificate B (Captain's) two years' efficient service, and pass the practical and written examinations, which are held under the auspices of the Imperial and Dominion Governments conjointly, for the whole Empire at the same time. The written papers are set and corrected by military experts in London, England, for the whole Empire.

To be efficient in a given year (1st August to 1st July), a member must have attended 40 parades if in his first year of service, or 25 parades if in a subsequent year, and must have completed his prescribed course of musketry. The time required is about two hours per week each session, and rifle practice is encouraged. The unit has its own rifle-range and quarters.

Each member upon joining the contingent will be required to deposit the sum of $5.00 with the Adjutant; for which a receipt will be given. This money will be refunded if the member becomes efficient; otherwise it will go into the funds of the contingent.

The training in the corps is of such a nature that all students are recommended to join. Enlistment is, however, purely voluntary.

Military training is one of the forms of activity recognized as fulfilling the requirements of physical education.

THE UNIVERSITY LIBRARY

G. R. Lomer, M.A., Ph.D., Librarian

The University Library is under the general management of a Committee of Corporation, consisting of the Principal, Chairman; the Librarian, Secretary; two members of the Board of Governors; one Representative Fellow, appointed by Corporation; two representatives of the Faculty of Arts, elected by the Faculty; two representatives of the Faculty of Applied Science, one of whom (being a member of some special Science Library Committee will look after the interests of these libraries on the committee); one representative of each of the Faculties of Applied Science, Law, Medicine and Graduate Studies, elected by their respective Faculties; the Dean of the Faculty of Medicine (or the Secretary of the Faculty); the Honorary Librarian of the Medical Library; one representative of the Royal Victoria College, and four other members appointed by the Corporation.

The several libraries of the University now contain over 226,000 volumes and 31,000 pamphlets, considerable collections of maps and photographs, and a number of the rarer and more costly monographs and serials which are indispensable for purposes of research. The Library now receives over 1,100 periodicals, Government publications and transactions of various literary and scientific societies.

Among the special collections possessed by the Library may be mentioned the Mendelssohn Choir Memorial Collection of works on Music, the T. D. King Collection of Shakespeariana, the Redpath Historical Collection, and the Collection of Canadiana. The nucleus of the latter is formed by the choice library of the late Mr. Frederick Griffin, which he bequeathed to the University about forty years ago. It has been growing ever since, and includes, at the present time, besides numerous manuscripts, an interesting collection of Canadian portraits and autographs, recently increased by a gift from Mr. George Iles. The Canadiana have been further enriched by the recent gift of over 270 volumes and 50 pamphlets from the library of the late Mr. William McLennan, presented in memory of him by his children. The library now has an extensive collection of bookplates in process of being classified and mounted.

The Redpath Historical Collection was begun by the late Mr. Peter Redpath soon after he became a Governor of the University. It received substantial yearly additions from him up to the year of his death, after which it was steadily augmented by his widow during the remainder of her life. It is now large and valuable, and affords excellent opportunities for the study of history. Its most striking

feature—a series of political, religious and social tracts, for which the first selections were made by the late Professor Henry Morley—was greatly enriched by the late Mrs. Redpath and now comprises about 10,000 brochures, dating from 1600 A.D. to the end of the nineteenth century.

A special Architectural collection, known as the "Blackader Library of Architecture," has been established in honour of Captain Gordon Home Blackader, B.Arch. (McGill), who was wounded near Ypres on June 2nd, 1916, and died in London on August 20th of the same year.

"The Emma Shearer Wood Library of Ornithology" was presented by Colonel Casey A. Wood, M.D., as a special research collection and reference library rich in periodical and pamphlet materials, for use by all who are interested in birds.

"The Blacker Library of Zoology" is being presented by Robert Roe Blacker and Nellie Canfield Blacker as a comprehensive reference library on this special subject. In addition to standard works it includes a number of monographs and an extensive collection of reports of scientific voyages and periodicals.

These three collections are now housed in the recently completed addition to the library and are provided in each case with a reading-room adjacent to the new steel stacks which are devoted to these special libraries.

The Barnes Collection of books on Physics is shelved with the Departmental Library in the Physics Building. The School of Commerce, the School for Graduate Nurses and the Department of Social Service are beginning to make collections of books on their special subjects.

Founded in 1900, as a memorial to the late Mr. Hugh McLennan from his children, the Travelling Libraries of McGill University were endowed in 1911 by their founders. These libraries contain, each, from thirty to forty carefully selected volumes; and are sent, on application, and on payment of a nominal fee of $4.00, to schools, to country libraries, to reading clubs, and to small communities which possess no public library. Pictures, lantern slides and lectures are also supplied by this department. Regulations and full particulars may be obtained from the Librarian of the University. Provision has also been made to supply books by mail to graduates of the affiliated theological colleges and to ministers who have not the advantage of local libraries.

Although the Library is maintained primarily for members of the University, the Corporation has provided for admission, upon certain conditions, of such persons as may be approved by the Library Committee. It is the desire of the Committee to make the Library

as useful to the entire community as is consistent with the safety of the books and the general interests of the University.

The Library serves also as a general reference library for Montreal and has been of service in this capacity to institutions, learned societies, business houses, railways, corporations, and industrial societies. It also has a system of inter-library loans by which it sends books to other libraries and obtains for the teaching staff works not available here.

With the Library are affiliated the McGill College Book Club and the University Book Club, which supply their readers with standard, important and recent publications and make a substantial annual contribution of books to the Library.

EXTRACTS FROM THE LIBRARY REGULATIONS

1. The University Library is closed on Sundays, and on certain other days. With a few exceptions, which are posted in the Library at the appropriate time, it is open as follows:—

(a) During the session, from 9 a.m. till 6 p.m. and from 7 till 10 p.m. On Saturdays from 9 a.m. till 5 p.m.

(b) During vacation, from 9 a.m. till 5 p.m. On Saturdays, from 9 a.m. till 1 p.m., except during July and August, when the Library is closed on Saturdays.

2. Students in the Faculties of Arts, Law, Applied Science, Dentistry and Medicine are entitled to read in the Library, and may borrow books (subject to the regulations) to the number of three volumes at one time.

3. Graduates in any of the faculties, on making a deposit of $5, are entitled to the use of the Library, subject to the same rules and conditions as students in Arts, Law or Applied Science.

4. Books may be taken from the Library only after they have been charged at the delivery desk; borrowers who cannot attend personally must sign and date an order, giving the titles of the books desired.

5. Books shelved in the reading-rooms or seminary-rooms must not be taken from the rooms to which they have been assigned; and, after they have been used, they must be returned promptly by readers to their proper places upon the shelves.

6. Before leaving the Library, readers must return to the attendant at the delivery desk books which they have drawn from the stack for use in the reading-room.

7. All persons using books remain responsible for them so long as the books are charged to them, and borrowers returning books must see that their receipt is properly cancelled.

8. Writing or making any mark upon any book belonging to the Library is unconditionally forbidden. Any persons found guilty of wilfully damaging any book in any way shall be excluded from the Library and shall be debarred from the use thereof for such time as the Library Committee may determine.

9. Damage to or loss of any books, maps, or plates, and injury to library fixtures, must be made good to the satisfaction of the Librarian and the Library Committee.

Damage, loss or injury, when the responsibility cannot be traced, will be made good out of the caution money deposited by the students with the Bursar.

10. Should any borrower fail to return a book upon the date when its return is due, he may be notified by postal card, and requested to return the book. If the time has not been extended, or the book returned, after a further delay of at most three days, the book may be sent for by special messenger, at the borrower's expense, or may be replaced, and paid for, in the case of a student, out of the caution monies of such student; in the case of graduates or other borrowers, out of their library deposits. A fine of five cents for ordinary books and of twenty-five cents for reference books is imposed for each day that a book is overdue.

11. Before the close of each session, students must return uninjured, or replace to the satisfaction of the Librarian, all books which they have borrowed.

12. Silence must be strictly observed in the Library.

13. Infringement of any of the rules of the Library will subject the offender to a suspension of his privileges, or to such other penalty as the nature of the case may require.

LIBRARY FEES

The Library fee for undergraduate students in the Faculties of Arts, Applied Science, Law, Dentistry, and Medicine is included in the University fees. The fee for partial students is $4.00. Graduate and extension course students, using the University Library must make a deposit of $5.00 at the Bursar's Office. The fees for members of the McGill College Book Club and the University Book Club are payable to their respective treasurers. Individuals not belonging to any of the above groups may use the Reading Room without charge, but should apply to the Library Committee, through the Librarian, for permission to take books from the building.

MACDONALD COLLEGE

FOUNDATION AND PURPOSE

Macdonald College, which is incorporated with McGill University, was founded, erected, equipped and endowed by the late Sir William C. Macdonald for the following among other purposes:—

(1) The advancement of education; the carrying on of research work and investigation and the dissemination of knowledge; all with particular regard to the interests and needs of the population in rural districts.

(2) To provide suitable and effective training for teachers, and especially for those whose work will directly affect education in schools in rural districts.

SITUATION AND EXTENT

The College occupies a beautiful site, overlooking the Ottawa River at Ste. Anne de Bellevue, P.Q., twenty miles west of Montreal. The main lines of the Grand Trunk and the Canadian Pacific railways pass through the property, and the stations of both railways are within its boundaries.

The College property comprises 786 acres, and has been arranged into four main areas, viz.: (1) the campus, with lawn, school garden, and recreation fields for men and women; (2) experimental grounds, with plots for illustration and research in grains, grasses, and other farm crops; (3) the horticultural and poultry departments; and (4) the stock farm.

THE GENERAL ORGANIZATION

The College is divided into three schools:—

(1) **The School of Agriculture,** which aims to provide a theoretical and practical training in the several branches of agriculture.

(2) **The School for Teachers,** which offers a comprehensive and thoroughly practical training in the art and science of teaching.

(3) **The School of Household Science,** in which young women receive training which will make for the improvement and greater enjoyment of home life and instructs them in professional work in household and institute superintendence and management.

ENTRANCE REQUIREMENTS

School of Agriculture.

See page 57 and the following.

School for Teachers.

Teachers to be trained for the schools under the control of the Protestant Committee of the Council of Public Instruction for the Province of Quebec will be admitted under conditions prescribed by that body, particulars concerning which are given in detail in the Announcement of Macdonald College.

School of Household Science.

All candidates for admission:—

1. (a) To the homemaker course, must have entered their eighteenth year and completed grade VII. of the Province of Quebec, or its equivalent.

   (b) To the institution administration course, must have entered their twenty-first year, completed grade XI. (school leaving) of the Province of Quebec, or its equivalent, and have had some previous experience in housekeeping (*e.g.*, assisting with the housekeeping in their own homes).

   (c) To the short courses, must have entered their eighteenth year, be able to read and write the English language acceptably and be proficient in the use of elementary mathematics.

2. Must produce satisfactory evidence as to moral character; also medical certificate of health, including successful vaccination within the six years preceding date of entrance.

	Tuition per Session	Laboratory Fee	Caution Money Deposit	4 Weeks' Board in Adv. (a)	Medical Fee	Laundry Fee	Student Activities	TOTAL
SCHOOL OF AGRICULTURE:—								
Winter Course and First and Second Years:								
Sons, daughters, etc., of farmers of the Province of Quebec, of the Ottawa Valley in Ontario, and of the Maritime Provinces	Free	(b) $5.00 (c) 10.00	$5.00	$28.00	$4.00	.....	$ 8.00(b) 9.50(c),(d)	$ 50.00(b) 56.50(c)
Other residents of Canada	$ 50.00	10.00	5.00	28.00	4.00	.....	9.50 (d)	106.50
Students from outside of Canada	100.00	10.00	5.00	28.00	4.00	.....	9.50 (d)	156.50
Third and Fourth Years:								
Sons, daughters, etc., of farmers of the Province of Quebec, of the Ottawa Valley in Ontario, and of the Maritime Provinces	50.00	15.00	5.00	28.00	4.00	.....	9.50 (d)	111.50
Other residents of Canada	50.00	15.00	5.00	28.00	4.00	.....	9.50 (d)	111.50
Students from outside of Canada	100.00	15.00	5.00	28.00	4.00	.....	9.50 (d)	161.50
SCHOOL FOR TEACHERS:—								
Intermediate and Kindergarten Classes	Free	5.00	5.00	28.00	4.00	$1.00	5.25 (e)	48.25
Elementary Classes	Free	2.50	5.00	28.00	3.00	1.00	(f)	39.50(h)
SCHOOL OF HOUSEHOLD SCIENCE:—								
B.H.S. Degree Course:								
Residents of Canada	100.00	15.00	5.00	28.00	4.00	1.00	5.25	158.25
Students from outside of Canada	125.00	15.00	5.00	28.00	4.00	1.00	5.25	183.25
Institutional Administration and Homemaker Courses:								
Daughters, etc., of farmers of the Province of Quebec	Free	10.00	5.00	28.00	4.00	1.00	5.25	53.25
Other residents of Canada	100.00	10.00	5.00	28.00	4.00	1.00	5.25	153.25
Students from outside of Canada	125.00	10.00	5.00	28.00	4.00	1.00	5.25	178.25
Short Courses (per course):								
Daughters, etc., of farmers of the Province of Quebec	Free	5.00	5.00	28.00	3.00	1.00	(g)	42.00(h)
Other residents of Canada	35.00	5.00	5.00	28.00	3.00	1.00	(g)	77.00(h)
Students from outside of Canada	50.00	5.00	5.00	28.00	3.00	1.00	(g)	92.00(h)

(a) Occupants of single rooms are charged $1.50 extra per week. Students in agriculture from the Province of Quebec receive a grant from the Provincial Government of $7.00 per month of attendance on account of board. See next page.

(b) Winter Course.

(c) First and second years.

(d) Women students in the School of Agriculture pay the same for student activities as the School for Teachers intermediate class.

(e) Men students of the School for Teachers intermediate class pay the same for student activities as men students of the School of Agriculture.

(f) Students of the elementary class pay for student activities—first term: men, $3.25; women, $1.50. Second term: men, $4.00; women, $2.25.

(g) Short course students pay for student activities—autumn and spring courses, 75c.; winter course, $1.50.

(h) Student activities to be added to this total.

THE B.S.A. DEGREE

Students who shall have completed the regular course of study in Agriculture, as laid down in the Announcement of the College, and shall have passed the prescribed examinations for graduation, shall be entitled to the degree of Bachelor of Science in Agriculture, and the degree, when abbreviated, shall be designated by the letters B.S.A.

Post-graduate work may be taken at Macdonald College. The degrees offered are M.S.A., M.Sc., Ph.D. These courses are set forth in the Announcement of the Faculty of Graduate Studies and Research.

DEGREE IN HOUSEHOLD SCIENCE

Students who shall have completed the regular course of study of the first two years in the Faculty of Arts, and shall have passed the prescribed examinations during the course, and thereafter shall have completed a special course of study for two years at Macdonald College, and shall have passed the prescribed examinations during the said course and also the special examinations for graduation, shall be entitled to the Degree of Bachelor of Household Science.

PROVINCIAL GOVERNMENT GRANTS TO STUDENTS FROM THE PROVINCE OF QUEBEC

(1) *School of Agriculture*

The Department of Agriculture of the Province of Quebec grants to each student who belongs to the Province of Quebec $7.00 per month of attendance employed in studying according to the time-tables in the School of Agriculture, Macdonald College. This amount will be placed to the credit of such students by the College Bursar and will be applied on account of board and lodging.

(2) *School of Household Science*

The Provincial Government grants bursaries of $20.00 to $50.00 each to Quebec students from the farming community in the junior and senior years of the School of Household Science.

COLLEGE ANNOUNCEMENT

Full details as to the courses, etc., will be found in the Announcement of Macdonald College, which will be sent on application to the Principal, Macdonald College, Que.

THE UNIVERSITY BUILDINGS

THE CENTRE BUILDING

This is the oldest building of the group. It contains the lecture rooms of the Faculties of Arts and Law and the offices of the administration.

THE CONSERVATORIUM OF MUSIC

The Conservatorium of Music is situated at the corner of University and Sherbrooke Streets, adjoining the University grounds. On the ground floor are the offices of the Director and of the Secretary, the library and a concert hall where recitals by the staff and students are given during the session and where orchestral and choral practices are held (the more important concerts take place in the large assembly hall of the Royal Victoria College). The second and third floors contain a number of studios, where lessons are given by the various members of the staff, as well as a room for lectures in theory and history of music, sight-singing, etc. In the basement are several practice rooms.

THE MEDICAL BUILDING

This Building, erected in 1911, at a cost of over $600,000, contains the Offices of Administration, the Medical Library (with its 38,000 volumes, its Reading Rooms and their complete set of technical journals), the Departments of Anatomy, Histology, Hygiene, Pharmacy, and the magnificent Museum of Pathology and Anatomy. The Faculty of Dentistry is also in this Building.

The new Library rooms for the reception of the Osler Library are now complete and await its arrival.

The Department of Anatomy, with its commodious laboratories, its Dissecting Room with 50 tables, and its very unusual abundance of material, affords unequalled facilities for students. Moreover, graduates who desire opportunities for research are adequately cared for in this Department.

The Department of Histology and Embryology, too, has excellent facilities, with laboratory space for 120 students, and smaller laboratories for research.

THE BIOLOGICAL BUILDING

Completed in 1922 at a cost of over $500,000, this edifice was erected on the site of the original Medical Building, which was partly

destroyed by fire in 1907. This extensive structure—184′ x 36′—houses on each of its floors laboratories devoted respectively to Botany, Zoology, Biochemistry, Physiology and Pharmacology.

Each of these Departments is amply provided with laboratories and units for undergraduate teaching and graduate research.

The Department of Botany, in addition to its laboratories, has three glass houses—60′ x 18′—adjacent to the Building, and provides living material for the work in General Biology and General Physiology.

The Department of Physiology, with its large and well-equipped teaching laboratories, each accommodating 96 students, is provided not only with motor-driven recording drums for each pair of students, but has also 16 fixed tables equipped with all the necessary apparatus for practical experiments in Physiology which each student must undertake for himself. Other rooms provide for advanced practical instruction and research. This Department is admirably equipped with an excellent workshop, animal quarters, operating and sterilizing rooms, string-galvanometer room, histology rooms, including dark rooms, and the usual space for demonstrations. The frog and turtle tanks are in the Basement, and a two-storey house for mammals is adjacent.

The Biochemical Laboratory on the Third Floor is of the most modern type, and has abundant accommodation for research workers. An extension of this floor is already being required to fulfil the needs of Physical Chemistry and the added interest of metabolic studies.

The Department of Pharmacology occupies the Top Floor, and is equally well-equipped.

THE PATHOLOGICAL INSTITUTE

The Pathological Institute, which houses the Departments of Pathology, Bacteriology and Medical Jurisprudence, has just been completed. This building, over 200 feet long and from 60 to 90 feet wide, faces the Royal Victoria Hospital, with which it is connected by a tunnel. It is of steel and stone construction in harmony with the architecture of the Royal Victoria Hospital and consists of a high basement containing mortuary for twelve bodies, shops, students' rooms, offices, and machinery rooms. The first floor is given over to Pathology and Medical Jurisprudence (autopsy theatre, lecture room, museum, demonstration rooms, several small laboratories, library and photography).

The second floor has the chemical, histological, experimental, animal and other research laboratories. The third floor is set apart for students' and research laboratories in Bacteriology. With the main building is connected by an archway a small cottage with living quarters

for the technical help and for animal rooms. The building contains throughout all floors a refrigerating system (ammonia plant), hot and cold water, live steam and air exhausts, and a special forced ventilating system. The large students' histology laboratory, accommodating 120 students, is built on a rising tier system of student benches, and the whole northeast wall is practically of thick glass.

THE MACDONALD ENGINEERING BUILDING

This building is designed to provide accommodation for six hundred students. The ground floor is given up to the civil engineering, geodetic, electrical and mechanical engineering laboratories, and is for the most part 23 feet in height. Mechanical and electrical engineering laboratories and the workshops also occupy the three lower floors of the Workman Building. The centre portion of the second floor is used for purposes of administration (faculty rooms, offices, library, etc.). The front parts of the second and third floors are occupied by eight class rooms which contain 700 seats, while the upper floors, both of the Engineering Building and the Workman Building, are devoted to drafting rooms, containing over 500 tables. The building throughout is of the most approved fire-proof construction, not only in the matter of materials, but in arrangement as well, the several floors being divided by fire walls and fire doors into separate sections. It was erected in 1909 at a cost of about half a million dollars.

THE MACDONALD CHEMISTRY AND MINING BUILDING

In addition to the large lecture theatre, which seats about 250 students, there are four lecture rooms for smaller classes and a number of offices. There are also three large general chemical laboratories (each with a floor space of about 2,400 square feet and accommodation for 200 students at a time), large laboratories for assaying, ore dressing and metallurgy, with a very complete equipment, and a number of smaller rooms and laboratories for special purposes, including research work. The reference library contains about 1,400 volumes.

THE MACDONALD PHYSICS BUILDING

The building is five storeys in height, each floor having an area of 8,000 square feet. Besides a lecture theatre and its apparatus rooms, the building includes an elementary laboratory nearly 60 feet square, large special laboratories, a range of rooms for optical work and photography, separate rooms for private work, and two large laboratories arranged for research, provided with solid piers and the usual standard instruments. There are also a lecture room for mathematical physics, a special physical library and convenient workshops.

THE UNIVERSITY LIBRARY

This building, which is a fine example of the Romanesque style of architecture, was erected in 1892 by Mr. Peter Redpath, a Governor of the University, and was enlarged in 1900 and again in 1922. The general reading room is 110 feet long, 44 wide and 34 high, and will seat 150 readers. The book stacks, four and five storeys in height, have a working capacity of 150,000 volumes.

THE OBSERVATORY

The Observatory is equipped for instruction in the use of meteorological instruments and in astronomical work. It is the Montreal station of the Meteorological Service of Canada. Time signals are given to the city, the railways and to the shipping.

THE POWER STATION

The new Power Station supplies heat to the following buildings: New Medical Building, Biological Building, Engineering and Workman Buildings, Chemistry and Mining Building, the Physics Building and the Arts Building. It also furnishes current for light and power to these buildings and to the Royal Victoria College, the Union and Strathcona Hall. The equipment of the station includes boilers of 1,000 H. P. nominal capacity, provision being made for future extension, and engines and generators of 600 kilowatt capacity. The coal bunkers hold 500 tons. The heating distribution is partly by tunnel and partly by underground conduit, the farthest building served being at a distance of 700 feet from the station. Electric cables are placed underground in vitrified clay conduits.

THE REDPATH MUSEUM

The Museum occupies a commanding position at the upper end of the campus, and besides its central hall and other rooms devoted to the collection, it contains a large lecture theatre, class rooms and work rooms. The collections in botany, palæontology, geology and zoology are fully and admirably arranged for teaching purposes.

THE ROYAL VICTORIA COLLEGE

This is a residential college for the women students of McGill University. It is situated on Sherbrooke Street, in close proximity to the University buildings and laboratories. On the ground floor are the

offices of the administration, lecture rooms, students' common room, and a spacious dining hall. A gymnasium is fitted up in the basement. On the first floor are other lecture rooms, the library, reading room and a handsome assembly hall. The second and third floors are given up entirely to rooms for resident students. These rooms are handsomely furnished, as indeed is the whole building.

STRATHCONA HALL

Strathcona Hall is the home of the Student Christian Association of the University. The building is 55 feet by 110 feet, and is five storeys in height. The three upper storeys are arranged to afford residential accommodation for about sixty students. On the ground floor are the secretary's office, sitting rooms, cloak rooms and a hall capable of seating 350 persons. The second floor contains a large reading room, a large game room, and five small rooms for the use of clubs and societies.

THE UNION

The McGill Union stands at the corner of Sherbrooke and Victoria Streets, within two minutes' walk of the College gates. The building measures 93 feet by 71 feet and consists of three storeys and a basement. On the main floor are the dining and luncheon rooms; on the second floor, billiard rooms, a news hall, a reading room and a library, a study and a lounging gallery (88 ft. by 21 ft.). The large hall is situated in the top storey. It measures 88 ft. by 45 ft. and has a seating capacity of 400. There are also smaller rooms for society meetings, etc. In the basement are baths, locker rooms and an exercise room (24 ft. by 38 ft.). The Union is the social centre of the University, the common meeting ground for students of all faculties. It is intended to promote a broad and true university spirit.

THE FIELD HOUSE

The Field House, a concrete structure at the west end of the Molson Memorial Stadium, provides for training quarters, team dressing room, lockers, store rooms, rubbing rooms and showers. Plans are prepared for further extensions if required.

LABORATORIES AND MUSEUMS

1. LABORATORIES

BOTANICAL LABORATORIES

The Department of Botany is housed on the first and ground floors of the newly-constructed Biological Building. The large and well-lighted elementary laboratory will afford ample accommodation for large classes. There are, in addition, smaller laboratories for Phanerogamic and Cryptogamic Botany, special rooms for preparation, sterilization, chemistry and photography and research accommodation. Opening out of the large laboratory is a small conservatory for the culture and preservation of demonstration material. A room is also set apart as a departmental laboratory, reading room and demonstration museum.

The practical work in plant physiology, genetics, etc., is done in a special large physiological laboratory (20 ft. by 75 ft.), and three adjoining glass houses, each 60 feet long and 18 feet wide, with the exception of a section of the central house which is 25 feet square.

CEMENT LABORATORIES

The laboratory is equipped for making complete tests on the strength and properties of cements, mortars, concrete, concrete beams, etc., and includes the following:—Tensile testing machines, hydraulic compression machine (50 ton), specific gravity apparatus, sieves for fineness tests, steaming apparatus, Vicat's and Gilmore's needles, metal moulds, mixers, rammers, balances, etc. Tanks are provided for the storage of briquettes and other test specimens, and the equipment is supplemented by that of the Strength of Materials Laboratory in making tests on large-sized specimens.

CHEMICAL LABORATORIES

(In the Chemistry and Mining Building)

Each of the three principal laboratories has a floor-space of about 2,400 square feet, and together they provide accommodation for nearly two hundred students working at one time. They are lighted on three sides, have special ventilation, and have ample hood space. Laboratory A is planned for beginners, and the other two for more advanced work; B for quantitative analysis, and C for organic preparation and qualitative analysis. In connection with each of the main laboratories is a balance-room equipped with balances by several of the best makers and an instruction room.

Physical chemistry is provided for in a special laboratory, nearly 30 by 40 feet, supplied with electricity, steam, vacuum pumps, etc. The equipment of this laboratory consists of the apparatus necessary for all requisite experiments in physical chemistry, determination of the specific gravities of solutions, of the depression of freezing point, of the rise of boiling point, and of densities of gases and vapours. There are constant-temperature baths for accurate measurement of solubilities, Kohlrausch's apparatus for determining the electrical conductivity of solutions, and the apparatus necessary for measuring the electromotive forces generated between metals and their solutions, and in voltaic cells generally. There are also calorimeters for measuring the heat effect produced in chemical reactions. On the same floor there is an optical room, devoted more particularly to crystallographic work and furnished with goniometers, polarizing microscopes, axial-angle apparatus, refractometers, etc.

Immediately adjoining the laboratory of physical chemistry is the photographic department, supplied with two dark rooms, provided with the necessary appliances for all ordinary photographic work.

The laboratory for gas analysis is fitted with a large tank to contain water at the temperature of the room, for use in obtaining a constant temperature in the measurement of gases. The tables are arranged for work with mercury and the laboratory is supplied with the apparatus of Hempel, Dittmar, Arsat, Elliott and others.

The laboratory for electrolytic analysis is supplied with accumulators, thermopiles, platinum electrodes, rheostats, ammeters, voltmeters, etc.

Another room has lately been equipped with electric furnaces and other appliances for electro-chemical work.

The organic department comprises a laboratory for preparations and research, a combustion room for analysis, a dark room for polariscope and saccharimeter work, and a lecture room.

The laboratory for industrial chemistry is especially ventilated and fireproofed. Here operations on a semi-commercial scale may be conducted involving the use of explosive and other dangerous chemicals.

The Chemistry Building is well supplied with small research laboratories for graduate and other research students.

ELECTRICAL LABORATORIES

The Senior Laboratory is equipped primarily for the study of alternating current phenomena and is equipped with motor-driven alternators of various types, giving a range frequency of from 25

to 360 cycles per sec.; single and polyphase induction motors of the squirrel cage and wound rotor types; single phase series and repulsion motors; constant voltage and constant current transformers; mercury arc rectifier; rotary converters; potential regulators; meters for the measurement of current, voltage, power, frequency, power factor, maximum demand and wave form; relays, rheostats, circuit breakers, static condensers, reactance coils, synchroscopes and other auxiliary apparatus. A travelling crane spans the laboratory and gives facilities for the rearrangement of the machines.

The above laboratory is also used by the Third Year electrical students for the study of current flow in circuits and of direct current machinery.

The Junior Electrical Laboratory on the third floor of the Electrical Engineering Building is used by the students of other departments who are taking an elementary electrical course, for the study of both direct and alternating current phenomena. The laboratory is equipped with shunt, compound and series wound direct current generators and motors of different types; constant current generators; arc and incandescent lamps; meters for the measurement of current, voltage and power; rheostats, circuit breakers, starters and other auxiliary apparatus. Several alternators, transformers, rotary converters and induction motors along with the necessary instruments and control apparatus are provided for use by the students taking the general elementary course. A hand-operated travelling crane gives facility for the rearrangement of the machines.

The Electrical Measurements Laboratory on the fourth floor of the Electrical Engineering Building contains the equipment of the old Standardizing Laboratory and the Photometric Laboratory, much of which is now available for the use of the Senior students.

The equipment of this laboratory will be completed during the next year and the course in Electrical Measurements at present given to the Senior Electrical students by the Department of Physics will then be in charge of the Electrical Department.

The scope of the laboratory will be extended to cover the elements of telegraphy, telephony and radio communication as soon as the necessary apparatus can be obtained and the courses developed.

The laboratory is equipped for the accurate measurement of direct currents up to 750 amperes and direct voltages to 1,500 volts and of alternating currents to 3,000 amperes. In the High-voltage Laboratory alternating voltages up to 200,000 volts can be obtained and measured.

The equipment of the laboratory includes conductivity bridges and Wheatstone bridges, Kelvin current and watt balances, Weston

standard ammeters, voltmeters and wattmeters, frequency meters, current and potential transformers, galvanometers, standard resistances, Weston cells, potential regulators, phase shifters, wave meters, thermionic valves, planimeters, standard potentiometer, Reichanstahlt precision photometer bar with a wide range of certified standard incandescent lamps, hand-operated and power-driven universal rotators, motor-driven sector discs and a complete set of screens. A Sharp Millar portable photometer and standardizing set and special apparatus of various kinds for experimental work.

The High-voltage Laboratory contains the following equipment: Four 200 to 50,000 volt transformers insulated so as to operate up to 200,000 volts; one 200 to 2,000 volt insulating transformer; one 110 to 20,000 volt testing transformer; standard spark gaps for oil and air; cathode ray tubes, electrostatic voltmeters and other auxiliary equipment. The transformers are provided with auxiliary voltage coils for direct voltage measurement and for connection to the oscillograph. The connections to this laboratory are such that any machine in the department may be used as a source of power and controlled directly from the transformer room, so that a wide range of frequency and of wave form is available for experimental work.

Oscillograph Laboratory. This is equipped with a Blondel triple oscillograph, with both visual and photographic attachments, and is specially adapted for the study of transient phenomena.

Power is supplied to the above laboratories from the 220-volt, 3-wire, D.C. generators in the central power-house. The voltage is maintained approximately constant on the two sides of the system by a balancer set located in the Senior Laboratory, which is also equipped for supplying constant voltage circuits of 125 volts.

The Department maintains a small machine-shop for instrument and machine repair and for the construction of special experimental apparatus.

FOREST PRODUCTS LABORATORIES OF CANADA

The Forest Products Laboratories of Canada, established by the Canadian Government in 1913, under the Forestry Branch, Department of the Interior, are associated with McGill University and are located at 700 University Street, Montreal. The chief functions of the laboratories are research and technical service in connection with woods and the products manufactured or derived therefrom.

Four divisions for the conduct of technical research are at present in operation, namely those of Timber Tests, Timber Physics, Pulp and Paper and Wood Preservation. Additional divisions will be added as the work develops.

The Division of Timber Tests is engaged in the investigation of the mechanical properties of Canadian woods with the object of establishing authoritative data on their strength. The resulting figures are of value in the employment of woods for any of the numerous purposes in which strength is a factor. Some sixty thousand tests have been made to date and figures relating to the strength of most of the important commercial timbers of Canada are now available. The Division also conducts investigative work on the strength and design of wooden manufactured articles.

The work of the Division of Timber Physics includes the investigation of the physical properties of wood for correlation with mechanical and other characteristics. Special attention is given to the study of microscopic anatomy as a knowledge of the minute structure of woods is the key to many problems encountered in their industrial use. The identification of woods is a feature of the work and extensive studies of the fibre length of various species have also been made. A reference collection of the commercial timbers of the world, in the form of sections mounted for the microscope, is in course of preparation.

The work on the pathology of woods consists largely in examination of timber in buildings and situations favouring its decay with a view to developing preventive measures. The deterioration of pulp-wood and wood-pulp in storage is also studied with a similar object. An extensive collection of specimens showing types of decay and deterioration has been brought together.

The Division of Pulp and Paper is engaged in the investigation of the paper-making possibilities of Canadian woods, the practical study of processes related to this field and research in fundamental problems of the chemistry of wood. A complete semi-commercial papermill has been installed for investigation on a large experimental scale. The chemical laboratory of the department is provided with complete equipment for experimental research in the chemistry of wood.

The Division of Wood Preservation is concerned with the investigation of methods of preservative treatment for the protection of timber against decay and insect destruction. The experimental laboratory of this division is provided with a complete wood preserving plant of small size in which railway ties and other products may be impregnated with preservatives under pressure. A chemical laboratory in this department is used for analysis of preservatives and examination of treated material.

The facilities of the laboratories include also a small saw-mill, seasoning yard, wood-working shop, photographic department, exhibit room and a reference library devoted to the technology and utilization of woods.

GEODETIC LABORATORY

The equipment of this laboratory consists of:—

(1) Linear instruments: a Rogers comparator and a standard bar for investigating standards of length; a fifty-foot standard and comparator for standardizing steel bands, chains, tapes, rods, etc.; a Munro-Rogers linear dividing engine.

(2) Circular instruments: a Rogers circular comparator.

(3) Time: an astronomical clock and clock circuit in connection with the observatory clocks; chronometers running on mean and sidereal time; chronograph.

(4) Gravity: a portable Bessel's reversible pendulum apparatus with special pendulum clock and telescopic apparatus for observing coincidence by beats.

(5) A water gauge apparatus for testing aneroid barometers; four level triers.

The laboratory and clock rooms are constructed with double walls and enclosed air spaces, and their heating is controlled by special thermostats, so that the temperature within may be brought to, and held at, any desired degree.

Astronomical Observatory.—The observatory equipment for the purpose of instruction in practical astronomy consists of: a Bamberg prismatic transit with zenith attachment; six astronomical transits for meridian observations; two Troughton & Simms zenith telescopes; two 8″ alt-azimuth instruments; sidereal and mean time clocks and chronometers, chronograph and electrical circuits by which observations and clock comparisons within or without the observatory may be made.

HIGHWAYS LABORATORY

The Highways Laboratory is equipped for conducting physical and chemical tests of road building materials, such as asphalts, tars, brick, stone, gravel, sand, etc. Among the more important items of equipment are Deval and Dorry machines; a standard rattler; an impact testing machine for rock; a diamond drill, lap and saw for preparing rock specimens; balances and scales; asphalt ductility machines; penetrometer; screens and screen shaker; extraction apparatus; drying ovens (gas and electric); viscosimeters; flash point testers; specific gravity apparatus, and melting point apparatus. There is also a large assortment of chemical glassware, etc.

Facilities for advanced work are greatly increased by the fact that this laboratory is operated in close connection with the Strength of Materials laboratory.

HYDRAULIC LABORATORY

In this laboratory the student studies experimentally the laws governing the flow of water through orifices, pipes, weirs, etc., and carries out experiments on the efficiency of various forms of water turbines running under different conditions as regards head and supply.

The equipment includes:—Apparatus for the measurement of the discharge of water from orifices, nozzles, weirs, etc., under varying conditions; arrangements for investigation of the loss of head by surface friction, by valves and diaphragms, and at curves and bends in pipes; Venturi meter for use at different discharges; centrifugal pumps of different types arranged for testing under varied conditions; various water turbines, including Pelton wheel and reaction wheels of Francis and propeller types; apparatus for measurement of pressure due to impact of jets on surfaces of different forms; gauge testing appliances; Hele Shaw's apparatus for study of the steam lines in a perfect fluid, illustrating the flow round obstructions in a channel, and numerous magnetic problems; numerous calibrated tanks, weighing appliances, and measuring apparatus in connection with the above.

The water turbines are of the most modern type, and are arranged for testing so that complete characteristic curves can be obtained. Different types of draft tubes can be used, so that a thorough study can be made of the behaviour of various types of runner under different conditions.

MECHANICAL ENGINEERING LABORATORIES

These laboratories are used in connection with the courses in Mechanical Engineering subjects. The smaller apparatus belonging to the laboratories includes the necessary equipment of weighing machines, ordinary and water dynamometers, steam calorimeters, thermometers, gauges, pyrometers, coal, gas and oil calorimeters, indicators, planimeters, flue gas analysis, etc.

1. Mechanical Laboratory.

The equipment of this laboratory includes:—A Thurston railway pattern oil tester, fitted with water cooling and heating apparatus for varying the temperature of the brasses as desired; standard viscosimeters and other necessary apparatus for the physical testing of lubricants; a high speed horizontal engine having a cylinder 6 inches diameter, 9 inches stroke, and operated by compressed air; a gas-fired preheater for the above engine; two standard 9½-inch Westinghouse airbrake pumps, fitted for testing and supplying compressed air for experimental and other purposes; a non-rotative Blake steam pump, having steam and water cylinders 4½ and 2¾ inches diameter and 4½ inches stroke; apparatus for measuring the heat loss from pipe

coverings and from radiators; on the efficiency of worm and other gearing, for governor testing; for testing fans and blowers.

2. Steam Engine Laboratory.

This laboratory is furnished with an experimental steam engine of 120 I.H.P., specially designed for investigating the behaviour of steam under varying conditions. The cylinders are 6½ inches, 9 inches, 13 inches and 18 inches in diameter, and the stroke of all the pistons is 15 inches. The cylinders can be so connected as to allow of working as a single, compound, triple, or quadruple expansion engine, either condensing or non-condensing, and with any desired rate of expansion. The jackets are so fitted as to permit of measuring independently the water condensed in the cover, barrel, or bottom jacket of each cylinder, and the engine can be worked with any desired initial pressure up to 200 lbs. per square inch. The measurements of heat are made by means of large tanks, which receive the cooling water and the condensed steam. There is an independent surface condenser and air pump. Two hydraulic absorption brakes and an alternative friction brake serve to measure the mechanical power developed. This laboratory also contains the following machinery:—A Robb automatic cut-off engine, having a cylinder 10½ inches in diameter by 12 inches stroke, which is specially fitted up for the measurement of cylinder temperatures, and can be run at speeds up to 300 revolutions per minute; an automatic high-speed engine by Macintosh & Seymour, having a cylinder 12 inches in diameter by 12½ inches stroke, in connection with which there is an automatic recording apparatus for registering the load on the brake; a Leonard horizontal engine, having a cylinder 8 inches diameter by 9 inches stroke, specially fitted for instructional work in valve setting and provided with an independent surface condenser; a two-stage air compressor (built in the workshops of the Department) taking 40 H.P. and having cylinders 10 inches and 17 inches in diameter, by 15 inches stroke (the compressor delivers its air into reservoirs placed beneath the floor of the machine shop, and is provided with an intercooler whose capacity can be varied as desired); a 15 K.W. Curtis steam turbo-generator with independent surface condenser, air pump, and a bank of lamps for varying the load; two 12 H.P. high-speed forced lubrication compound engine (built in the workshops of the Department), one of which is used to drive a Hall 1-ton Co_2 ice machine.

Steam is supplied to this laboratory by the boilers in the Workman Building. These consist of one 100 H.P. locomotive boiler, Belpaire type, fitted with Howden oil burning furnace, two Babcock & Wilcox water tube boilers, each 60 H.P. These boilers are fitted with the necessary tanks, weighing machines and apparatus for carrying out evaporative tests. For the study of superheated steam, one of the

B. & W. boilers is fitted with a superheater built by the Superheater Co., and there is also a B. & W. separately fired superheater.

3. Gas Engine Laboratory.

This laboratory contains a horizontal gas engine by the National Gas Engine Company, having a cylinder 12 inches diameter by 20 inches stroke and developing 40 B.H.P.; a suction type producer for the above with the necessary scrubbers and gas cleaning apparatus; a 10 B.H.P. Otto type gas engine (built in the workshops of the Department), having a cylinder 8½ inches diameter by 12 inches stroke; a 14 B.H.P. 2-cylinder 2-cycle Grey gasoline engine; a 4 H.P. Blackstone oil engine, a Ford automobile engine, a 9 H.P. Victory (Hvid) oil engine, a 9 H.P. crude oil engine built by Vickers & Co.

4. Machine Shop.

This shop contains, lathes, shapers, milling machines, etc., and in addition to being used for shopwork instruction is used as a laboratory for time studies and routing, etc.

METALLURGICAL AND ASSAYING LABORATORIES

These consist of a large furnace room of 2,000 sq. feet, for metallurgical operations, a furnace room for assaying of 1,300 sq. feet, a balance room, small chemical laboratory, and parts of other rooms, which are utilized for pyrometric and photo-microscopic work. The furnace room is fitted with a water-jacket blast-furnace, 21 inches inside diameter, for smelting lead and copper ores; also a hand reverberatory furnace for roasting ores, and a Bruckner roasting furnace.

In addition to this comparatively large-scale plant, apparatus has been provided to enable the students to study in detail the more important metallurgical operations, using quantities of ore or metallurgical products of usually not more than a few pounds in weight.

For small-scale work there are a number of crucible and muffle furnaces, heated by coke, gas, oil and electricity.

The electric furnace plant consists of a 50 H.P. motor and a 30 K.W. alternating current generator, together with transformers and measuring instruments. A number of electric furnaces have been installed for making steel, smelting ores, melting metals and making researches at high temperature. A low-voltage direct-current generator is employed for electrolytic operations, and an electrode rotator and storage battery has been added for electrolysis on a small scale. An electric muffle furnace, having carbon resistors and a carborundum muffle, is in regular use for determining the melting temperature of refractory materials, measurements being made with an optical pyro-

meter and Seger cones; the furnace can be heated to 1800°C. A "surface combustion" gas furnace is also available for high temperature work.

A Leeds and Northrup "hump" method electric furnace with recording pyrometer has been modified to give automatic time-temperature control and is now a most useful appliance for heat-treatment and pyrometric research.

For heat-treatment and fire-assaying there is also a large electric muffle furnace with automatic temperature control, and a Freas electric oven suitable for constant temperature work up to 180°C.

An oxy-acetylene cutting and welding outfit is in regular use and has proved both instructive and useful for repairs and new construction.

A powerful hydraulic press and a piece of apparatus for compressing gases by hydraulic power are available for experiments that have to be conducted under great pressure.

A small drop-testing machine, a Sankey metal-bending tester, and Shore and Brinell hardness testers have been installed for investigating the mechanical properties of metals.

The assaying laboratory is equipped with a number of muffle and crucible furnaces fired with coke, a large gas muffle furnace, several gas-fired crucible furnaces, a large oil-fired muffle furnace and the electric muffle furnace mentioned above.

Adjoining the assaying laboratory are the balance room and a small laboratory for chemical work.

One end of the assaying laboratory has been fitted up as a regular "works laboratory" in which students are trained in commercial metallurgical analysis.

The metallographic laboratory is well equipped with microscopes, including a standard works microscope with photographic attachment. It has also a dark room and two very satisfactory polishing machines for preparing metal specimens, which were built in the Department.

MINING AND ORE-DRESSING LABORATORIES

The Department of Mining Engineering has two large laboratories for ore-dressing, and a number of rooms of moderate size equipped for use as special laboratories, dark room, machine shop, etc. The effective floor space is about 10,000 square feet, in addition to which the departmental store rooms, ore bins, etc., have an area of 1,500 feet.

The ore-dressing laboratory proper is built in two storeys about a central well and has about 6,500 feet total floor space. The equipment

comprises two classes of apparatus. First, a number of pieces specially designed for individual work on a small scale. Many of these are for elementary investigation and demonstrations of a theoretical nature, others are working reproductions on a reduced scale of typical ore-dressing machines. Second, standard apparatus for ore crushing, sampling, milling, concentrating and for coal washing. This apparatus has been chosen from the best designs in common use, and whenever possible each important class of ore-dressing machinery is represented by two or more different types, in order that comparisons may be made. Each machine is ordinarily used and tested independently, but, when expedient, a number of machines can be connected and thus complete plants of various kinds can be improvised, each of sufficient capacity to test considerable lots of material under approximately working conditions.

The chief pieces of apparatus in the main laboratory are rock-breakers of four kinds, Blake, Dodge, Gates, and Sturtevant; gravity stamp mills of 600 and 950 lbs. respectively; high-speed steel-tyred rolls and a 3-foot Huntington mill for fine crushing; Sturtevant and Gates grinders for preparing samples, and ball mills, pebble mills and amalgamation pans for extremely fine grinding. Following these there are Bell, Jones and Brunton samplers; a Callow belt screen, a Tyler Hummer screen, a series of trommels and power shaking screens for sizing the crushed ores; an especially designed jig of two compartments with adjustable eccentric, cam and slide mechanisms, a pneumatic jig, a Richards pulsator jig, a Taylor vibrating jig and several small hand and power jigs for coarse and medium concentration; slime tables of several types, including a Frue vanner, Wifley and Butchart riffled tables; magnetic separators of three types, an electrostatic separator, dry and wet coal washers, flotation apparatus of several different types for both continuous and intermittent operations; a pachuca agitator, cyanidation vats and agitators, a Dorr thickener, an Oliver filter with the necessary tanks, pumps, etc., and several smaller vacuum and pressure filters; plates, pans and barrels for amalgamating gold and silver ores; settling and feeding cones, and various other special pieces of ore-dressing apparatus.

An hydraulic lift and the necessary jet elevators, feeders, samplers, steam-jacketed drying tables, etc., are provided for use in heavy continuous work. The power chiefly used is electricity, generated in the University power station and utilized through a number of independent motors aggregating 100 H.P., but steam is used for some pieces of apparatus and others may be driven by a Pelton wheel. Two motor-driven vacuum pump and air-compressors of 7½ and 4 H.P. serve the filters and provide an ample supply of compressed air.

The Department is equipped with suitable apparatus for electrical measurements, and is thus able to make continuous and accurate determination of the amount of power used by each machine.

In addition to the main laboratory, there are excellent facilities for advanced and research work—including a small but thoroughly equipped chemical and assay laboratory and a photographic room. The Department possesses a number of cameras, microscopes, recording gauges and indicators, a good equipment of weighing and measuring devices, and special apparatus for advanced theoretical investigation.

THE PHYSICAL LABORATORIES

The equipment of the Macdonald Physical Laboratories comprises: (1) apparatus for illustrating lectures; (2) simple forms of the principal instruments for use by students in practical work; (3) various types of important instruments for exact measurements, to be used in connection with special work and research.

The magnetic laboratory contains magnetic instruments and variometers of different patterns, and also a duplicate of the B.A. Electrodynamometer. The laboratory on the opposite side of the basement contains a Lorenz apparatus for the absolute measurement of resistance, constructed under the supervision of Prof. Viriamu Jones.

There is a constant temperature room, surrounded by double walls, which is fitted for comparator work.

The first floor contains the main electrical laboratory, which is a room 60 feet by 40, and is fitted with a number of brick piers, which come up through the floor, and rest on independent foundations, in addition to the usual slate shelves around the walls. This room contains a large number of electrometers, galvanometers, potentiometers, and other testing instruments of various patterns, and adapted for different uses. Three small research laboratories adjoin the electrical laboratory. A well-equipped workshop serves for the construction of research apparatus and repair work.

On the second floor of the building there is the heat laboratory, devoted to advanced work in thermometry, pyrometry and calorimetry and also to such electrical work as involves the use of thermostats and the measurement of the effects of temperature. This adjoins a private laboratory fitted for research work.

The third floor contains two small lecture rooms, a library and reading room for the staff and professors' rooms.

The fourth floor contains the large elementary laboratory, a room 60 feet square, devoted to elementary practical work in heat, sound, light, electricity and magnetism. There is a demonstrators' room adjoining, and an optical annex devoted to experiments with lenses, galvanometers, etc., which require a darkened room. On the other

side of the building there is a spectroscopic room, containing a six-inch Rowland grating, with mountings by Brashear, and other large spectrometers and polarimeters; also a series of smaller optical rooms, including a photometric room, especially fitted for arc photometry, and a dark room for photographic work.

PETROGRAPHICAL LABORATORIES

The Petrographical Laboratory, containing the chief rock collections of the University, is situated in the Chemistry and Mining Building. It is provided with a number of petrographical microscopes by Bausch and Lomb, Siebert, Grouch, and Fuess, as well as with models, sets of thin sections, electromagnets, heavy solutions, etc., for petrographical work.

A collection of typical rocks has been especially prepared for the use of students, and a complete equipment for cutting, grinding, and polishing rocks has been installed, which runs by electric power and gives excellent facilities for the preparation of thin sections for microscopic use.

For advanced work and petrographical investigation, Dr. Adams' extensive private collection of rocks and thin sections is available for purposes of study and comparison.

THE PSYCHOLOGICAL LABORATORY

The psychological laboratory occupies two rooms in the Arts Building. It contains apparatus for the study and investigation of sensation, perception, ideas, memory, association, attention, volition, feelings, emotions and reaction. This equipment serves three purposes; First, it is adapted to research work in the various fields of experimental psychology, including physiological psychology, educational psychology, and applied psychology. Second, it is used to acquaint beginners with the methods of experimental psychology, both qualitative and quantitative. Third, it furnishes material for experimental demonstration in the elementary and advanced lecture courses.

STRENGTH OF MATERIALS LABORATORIES

These laboratories are equipped with apparatus for the determination of the physical properties of the materials of construction and for illustrating the fundamental laws of the strength of materials. The equipment includes:—

(*a*) Riehle testing machine of 60,000 lbs. capacity, a Wickstead 100-ton, a Wickstead 50-ton, and an Emery 75-ton machine for testing the tensile, compressive and transverse strength of the several mater-

ials of construction. To the 100-ton Wickstead has been added a specially-designed arrangement, by which the transverse strength of girders and beams up to 26 ft. in length can be determined. Special holders have also been designed and made in the laboratory for investigating the tensile and shearing strength of timber, and for the testing of wire ropes, belts, etc. An Olsen machine of 10,000 lbs. capacity is used for testing wire.

(*b*) A Rondet-Schor machine, with a capacity of 500 kilograms, for testing textile fabrics.

(*c*) A Torsion machine, with a specially-designed angle measurer, by which the amount of the torsion can be measured with extreme accuracy.

(*d*) An accumulator, furnishing a pressure of 3,600 lbs. per square inch, which is transmitted to the several testing machines, and ensures a perfectly steady application of stress, an impossibility when any form of pump is substituted for an accumulator. An automatic electric motor has been designed in the laboratory and constructed for the purpose of actuating the accumulator.

(*e*) A Blake and Worthington steam pump and an electric pump, designed to work against a pressure of 3,600 lbs. per square inch. The accumulator may be actuated by any of the pumps, and, if at any time it is necessary to do so, any of the pumps may be employed to actuate the testing machines direct. When in operation, the work of the pump and the accumulator is automatic.

(*f*) Extensometers of the Bovey, Ewing, Unwin, Martens, Marshall and other types.

(*g*) Portable cathetometers, and also a large cathetometer specially designed and constructed for the determination of the extensions, compressions and deflections of the specimens under stress in the testing machines.

(*h*) Various electric motors for working the several machines.

(*i*) A drying oven for beams up to 26 feet in length. The hot air in this oven is kept in circulation by means of a fan driven by an electric motor.

(*j*) Numerous gauges, amongst which may be specially noticed an Emery pressure gauge, graduated in single lbs. up to 2,500 lbs. per square inch. All of the testing machines are on the same pressure circuit, and are connected with the Emery gauge and also other standard gauges, including recording gauges. This arrangement provides a practically perfect means of checking the accuracy of the testing.

(*k*) Special apparatus and recording gauge for the testing of hose, etc.

(*l*) Dynamometers for measuring the strength of textile fabrics, the holding power of nails, etc.

(*m*) Apparatus for determining the elasticity of long wires.

(*n*) Apparatus for determining the hardness of materials of construction, including Shore scleroscope.

(*o*) Zeiss and other microscopes.

(*p*) Delicate chemical and other balances. A very important part of the equipment is the Oertling balance, capable of indicating with extreme accuracy weights of from .00001 lb. up to 125 lbs.

(*q*) Apparatus for the microscopic study of metals and for microscopic photography.

(*r*) Micrometers of all kinds, including a 10-inch Howard gauge, and Berry strain gauges.

(*s*) A transverse bending machine which is adapted for loads up to 3,000 lbs. and for beams to 10 ft. span, and a testing machine for applying bending and torsion simultaneously.

THE ZOOLOGICAL LABORATORIES

The zoological laboratories are situated in the new Biological Building, where ample provision is made for the accommodation of all classes.

The equipment includes microscopes and microtomes and accessories of different models for various requirements; fresh water aquaria, preparations, charts and materials for research. Specimens exhibited in the Peter Redpath Museum are available for study and illustration.

Arrangements can be made with the Biological Board of Canada for qualified students to take up some branch of original work at the Atlantic Biological Station, St. Andrews, N.B., during the summer months and to complete the investigation here during the session.

2. MUSEUMS

ARCHITECTURAL MUSEUM

The Museum of the Department of Architecture contains a representative collection of historic casts illustrating the development of architectural ornament and form, and the technique of architectural material. Many of the casts have been specially prepared for the Department. The group of English mediæval art is unique in any University on this continent. The collection of metal work includes examples of iron, brass, copper and jewellery, and is arranged so as to exhibit the technical possibilities of the material.

MUSEUM OF ANATOMY

The Anatomical Museum is designed primarily as a teaching museum to be used in conjunction with the didactic and practical instruction given in the Department of Anatomy. It now contains several thousand preparations and models arranged to illustrate general embryology; human embryology and organogenesis; the theory of human evolution; the prehistoric races of mankind; physical anthropology; comparative osteology; general comparative anatomy and the details of human structure, regional, systematic and topographical.

In addition to the material which is exhibited in the museum cases several hundred wet preparations are kept in storage and are used as teaching specimens in the class and dissecting rooms.

Special collections illustrating the anatomy of regions and organs have been formed and are being continually augmented. These are available not only for undergraduate teaching, but also for use by interested graduates.

A collection of over two thousand lantern slides and several hundred stereoscopic photographs is maintained.

MUSEUM OF HYGIENE

The material in the museum has been rearranged with a view to exhibiting not only specimens of the best and most approved types of appliances in each particular branch of public health, but also examples of types which are to be avoided on hygienic principles.

In order to facilitate study and reference, the specimens have been classified upon a decimal system under the following sections:—

1. *Disinfection.*—Including disinfecting apparatus of all kinds, disinfectants and antiseptics.

2. *Lighting and Heating.*—Showing contrivances used for these purposes, and illustrative of the principles involved.

3. *Water.*—Showing conditions connected with pollution of water supplies, whether derived from the surface or underground sources; methods of purification on large and small scales; water pipes, etc., and the influence which these fittings may exert upon the water contained therein.

4. *Soils and Buildings.*—Building sites, various kinds of soils; relation between soil and dampness; permeability of soils to gases and water; composition of soils; effects of ground moisture on dwellings; measures to be taken against dampness and foul air; and building materials of all kinds.

5. *Air.*—Including ventilation schemes and appliances; climate and meteorology, with apparatus illustrative of each class.

6. *Foodstuffs.*—Adulterations and sophistications practised; samples of unsound foodstuffs.

7. *Bacteriological and Pathological.*—Specimens of diseased meats; specimens and slides of all the common micro-organisms, pathogenic and non-pathogenic.

8. *Clothing.*—Specimens of all the materials utilized for the manufacture of clothing, showing the raw state and the various processes through which they pass until the finished product is reached; the hygienic value of these various articles is also set forth.

Injuries and deformities which may directly result from the use of badly designed articles of clothing; history and evolution of clothing.

9. *Drainage and Refuse Disposal.*—This section includes every type of appliance used as sanitary fixtures in buildings; drainage schemes; ultimate disposal of refuse both liquid and solid; refuse destructors, and sewage disposal plants. The section also includes types of faulty methods and appliances which on principle ought to be avoided.

In addition to the regular museum exhibit, there is a collection of over 1,000 lantern slides illustrative of phases of hygiene. The slides have been so arranged as to be available for demonstration as hand specimens.

A catalogue with text and full description of all the exhibits contained in the museum is issued by the University authorities, and may be purchased at the general office.

THE MCCORD NATIONAL MUSEUM

This Museum is located in the old Joseph House, at the corner of Sherbrooke and McTavish Street. The collection is a gift to the University from Mr. David Ross McCord of Temple Grove, a graduate in Arts of 1863, and in Law of 1867. The range of the collection is most extensive, comprising, as it does, mementos of the great statesmen, warriors, writers, and spiritual leaders among the two principal

races which are now represented in Canada, as well as of the great explorers of every part of the North American continent. The Arctic souvenirs are especially numerous and important, and in the department of Wolfiana, the Museum is probably unrivalled.

One of the most important departments is that treating of the North American Indian, the section relating to the Indians of the Eastern half of the continent being especially complete. Here are to be seen the arms and personal relics of Tecumseh and Brant, and most wonderful specimens of wampum and Indian silver. The great series of paintings illustrative of the campaigns and archæology of Canada are not only accurate, but artistic. There are separate departments for china, glass and historical furniture as well as one for the cradle industries of Canada. There is a special room for relics of the Founder of the University, and of its first great Principal, Sir Wm. Dawson, with his distinguished colleagues in science at the time, Sir William Logan and Dr. Sterry Hunt.

A special aim of the Museum is to form a school of useful and ornamental art, based in types of native Indian industry, such as the manufacture of wall papers, works in metal of all kinds, and ceramic work, in the motifs for which the Museum is especially rich.

THE PETER REDPATH MUSEUM

1. The botanical room on the ground floor contains the herbarium consisting of 50,000 specimens of Canadian and exotic plants and collections illustrating structural and economic botany.

2. In the corridor on the ground floor is exhibited the Todd Ethnographical Collection from West Africa.

3. The Lyman entomological room is also situated on the ground floor. Mr. A. F. Winn is the entomological curator under the Lyman Bequest.

4. On the first floor is a room over the entrance hall, in which are cases containing archæological and ethnological objects, including collections from the Queen Charlotte Islands, from Egypt, and from West Africa.

5. This room opens into the great museum hall, on each side of which are alcoves with upright and table cases containing the collection in palæontology arranged primarily to illustrate the successive geological systems, and subordinately to this, in the order of zoological and botanical classification, so as to enable the student to see the general order of life in successive periods, and to trace any particular group through its geological history.

6. At the extreme end of the hall are placed the collections of minerals and rocks, arranged in such a manner as to facilitate their

systematic study. In the centre of the hall are economic collections and large casts and models. These comprise the Sir William Logan Memorial Collection.

7. In the upper story or gallery of the great hall are placed the zoological collections; the invertebrate animals in table cases in regular series, beginning with the lower form; the vertebrate animals in upright cases, in similar order. The PHILIP CARPENTER COLLECTION of shells is especially noteworthy for its arrangement and completeness.

Papers and memoirs relating to certain type specimens in the collections can be obtained from the Assistant Curator. Classes of pupils from schools can be admitted on certain days under regulations which may be learned from the Professors of Botany, Geology and Zoology or from the Registrar of the University.

MUSEUM OF PATHOLOGY

The Pathological Museum of the University contains to date approximately 7,440 specimens, of which some 3,540 are mounted and catalogued on the Museum shelves, and the balance are in a carefully labelled and classified storage, where they are readily available for teaching, and from which they are constantly being drawn and added to the display collection on the shelves of the Museum proper. A descriptive catalogue is in process of preparation. The Museum includes the pathological collection of the Royal Victoria Hospital, which consists of some 240 specimens preserved in colours, mounted and catalogued. Some 110 models, of microscopic slides and charts for pathological and clinical teaching, are filed in the Museum.

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Barza, David	Arts 2	449 St. Dominique St., Montreal	East 8756-J
Bashaw, Albert C. H.	Arts 2	35a McGill College Ave., Montreal.	
		12 Jackson Ave., Rutland, Vt.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Bassen, Frank A.	Med. 2	685 University St., Montreal 251 King St. E., St. John, N.B.	Up. 0681
Batshaw, Abe	Arts 2	61 Parthenais St., Montreal	Clair. 3408-J
Batson, Martha	Grad. Nurses 1	Montreal Gen. Hospital, Montreal	
Baum, Saul C. S.	Phar. 1	443 St. Lawrence Blvd., Montreal	East 2759
Bauman, Bert E.	Ap. Sci. 3	196 Milton St., Montreal Buckingham, Que.	Plat. 3407
Baxter, Gordon B.	Ap. Sci. 3	707 Shuter St., Montreal 144 Des Forges St., Three Rivers, Que.	Plat. 0427
Baxter, Hamilton H.	Dent. 4	285 Hampton Ave., Montreal	Wal. 2054
Baxter, Stewart G.	Med. 3	285 Hampton Ave., Montreal	Wal. 2054
Baxter, William J.	Med. 1	31 Lorne Ave., Montreal Fairville, N.B.	Plat. 0938
Bazin, Alfred R.	Arts 2	4064 Dorchester St., Westmount, Que.	West 2165
Beaton, Kenneth K.	Dent. 3	851 University St., Montreal 616 George St., Sydney, N.S.	Plat. 5070
Beck, Robert G.	Ap. Sci. 2	202 Milton St., Montreal 417 Machray Ave., Winnipeg, Man.	Plat. 0474
Becker, Laban M.	Arts 3	142 Laurier Ave. W., Montreal	Bel. 9201-J
Becking, John A.	Grad. Sch. 1	953 Tupper St., Montreal 32 Wellington St. E., Sault Ste. Marie, Ont.	
Bedford-Jones, Muriel C.	Arts 3	164 Edgehill Rd., Westmount, Que. St. James Rectory, Perth, Ont.	West. 4553
Beers, Gertrude V.	Grad. Nurses	338 Mackay St., Montreal 48 Prince St., Charlottetown, P.E.I.	
Beinhaker, Israel	Dent. 4	1238 Clarke St., Montreal	Bel. 0341
Belcourt, John W. F.	Ap. Sci. 1	283 Clarke Ave., Westmount, Que. 27 Youlburne Ave., Ottawa, Ont.	
Bell, Charles R.	Ap. Sci. 2	810 University St., Montreal St. John's, Nfld.	Up. 9109
Bell, Earl R.	Med. 1	468 Sherbrooke St. W., Montreal 359 4th St., Medicine Hat, Alta.	Up. 7557
Bell, Graham A.	Ap. Sci. 2	Strathcona Hall, Montreal Alexandra Hotel, Ottawa, Ont.	Up. 1086
Bell, Robert A.	Ap. Sci. & Arts. P.	32, 17th Ave., Lachine, Que.	Lach. 119
Bell, Robert B.	Arts 3	363 Melville Ave., Westmount, Que.	West. 0375
Bell, Willard K.	Com. 2	2168 Waverly St., Montreal	Bel. 0752
*Bellew, Leo T. F.	Sci. 3	298 St. Joseph Boul. W., Montreal	
Bellman, Harry	Phar. 2	297 Colonial Ave., Montreal	Plat. 3743
Belnap, Jane I.	Arts 2	558 Roslyn Ave., Westmount, Que.	West. 1909
Benjamin, Archie	Ap. Sci. 1	1742 Mance St., Montreal	Bel. 8737-J
Bennett, Arthur J.	Ap. Sci. 2	Strathcona Hall, Montreal River Desert, Que.	Up. 1086
Bennett, James G.	Arts 4	756 University St., Montreal R.R. No. 1, Calumet, Que.	Up. 0290
Benny, Marguerite I.	Arts 2	Royal Victoria College, Montreal Joliette, Que.	Plat. 0078
Benson, Harry Gladstone	Dent. 4	149 Durocher St., Montreal Grates Cove, Nfld.	Plat. 5930
Bent, Lionel H. S.	Arts P	719 University St., Montreal	
Berenstein, Albert I.	Phar. 2	Apt. 8, 2314 Mance St., Montreal	Bel. 6701
Berger, Julius	Grad. Sch.	287 St. Joseph Blvd. W., Montreal	
Berlin, Saul S.	Arts 1	2220 Esplanade Ave., Montreal	Bel. 6535
Berlind, Julius	Arts 1	441 Henri Julien St., Montreal	East 8449
Berlind, M. Melvin	Med. 2	462 Elm Ave., Westmount, Que.	West. 0377
Berman, David, M.D.	Med. D.P.H.		
Bernat, Juliette M.	Med. 3	340 Sherbrooke St. W., Montreal 429 E. 64th St., New York, N.Y.	
Bernstein, Jacob C.	Med. 2	5 Tara Hall Ave., Montreal	Plat. 3139

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Bernstein, Marcel	Law 1	2388 Esplanade Ave., Montreal	Bel. 9492-W
Bernstein, Saul H	Dent. 4	85 Mt. Royal Ave. W., Montreal	Bel. 3706-F
Berridge, Winston W	Ap. Sci. 4	48 Rozel St., Montreal	York 1450
Berry, William L. V	Com. 1	730 Shuter St., Montreal	Plat. 3548
		Dunrobin, Ont.	
Berwick, Kenneth C	Dent. 2	27 Thornhill Ave., Westmount, Que.	West 2604
Besner, Freda	Arts P	2110 St. Urbain St., Montreal	Bel. 3972-J
Besner, Mendle	Arts P	2110 St. Urbain St., Montreal	Bel. 3972-J
Betts, Randolph C	Ap. Sci. 2	Strathcona Hall, Montreal	Up. 1086
Bickford, Andrew A	Ap. Sci. 4	686 Sherbrooke St. W., Montreal	Up. 3466
		c/o N.Y. Trust Co., New York, N.Y.	
Bickford, Charles E	Ap. Sci. 1	686 Sherbrooke St. W., Montreal	Up. 3466
		Armer-Bickford Corp., 7th Ave., No. 1, Guatemala, C.A.	
Bickford, John W. K	Med. 4	686 Sherbrooke St. W., Montreal	Up. 3466
		Armer-Bickford Corp. 7th Ave., No. 1, Guatemala, C.A.	
Bickle, Jack A	Med. 1	Y.M.C.A. Dfummond St., Montreal	
		Ladysmith, B.C.	
Bingham, Will F	Com. 1	Central Y.M.C.A., Drummond St., Montreal	
		393 Somerset St., Ottawa, Ont.	
Binmore, Mary E	Arts 1	148 Northcliffe Ave., Montreal	West. 6292
Birkett, Charles B	Ap. Sci. 4	297 Prince Arthur St., W., Montreal	Plat. 2681
		517 O'Connor St., Ottawa, Ont.	
Bishop, Eric G	Grad. Sch. 2	756 University St., Montreal	
		Greenspond, Nfld.	
Bissett, Alice	Arts 4	314 Broadway Ave., Lachine, Que.	Lachine 271
Bisson, Margaret M	Arts 1	670 Northmount Ave., Montreal	At. 4153
Black, Alan H	Com. 3	202 Milton St., Montreal	Plat. 0474
Blackler, Chesley F	Med. 4	824 Lorne Crescent, Montreal	Plat. 5067
		71 Pennywell Rd., St. John's, Nfld.	
Blackwell, Burton W	Arts 2	Y.M.C.A., Drummond St., Montreal	
		21 Lake St., Auburn, Me.	
Bladon, Leigh W	Ap. Sci. 3	35 Holton Ave., Westmount, Que.	West. 5077
Blair, Allan W	Med. 2	404 Wesleyan College, Montreal	
		2257 McIntyre St., Regina, Sask.	
Blair, Wilfred M	Dent. 4	770 University St., Montreal	Up. 5918
		2257 McIntyre St., Regina, Sask.	
Blau, Abbie	Arts 2	611 St. Urbain St., Montreal	Plat. 2411
Blond, Harry H	Arts 2	309 Laval Ave., Montreal	East 5232
Blond, Irwin B	Arts 1	309 Laval Ave., Montreal	East 5232
Bloomfield, Bernard M	Arts P	4019 Dorchester St., Westmount, Que.	West. 4432
Bloomfield, Dorothy R	Arts 1	4019 Dorchester St., Westmount, Que.	West. 4432
Bloomfield, Louis M	Arts 2	4019 Dorchester St., Westmount, Que.	West. 4432
Bloomfield, Maxwell I	Med. 4	1462 St. Urbain St., Montreal	Bel. 2520-W
Blumenstein, J. Harold	Grad. Sch. 1	990 Clarke St., Montreal	
Blumer, Hilda	Arts P	602 Victoria Ave., Westmount, Que.	West. 2922
Blundell, Stanley F	Arts 4	756 University St., Montreal	Up. 0290
		Victoria, B.C.	
Blundon, Leslie W	Arts P	756 University St., Montreal	Up. 0290
		Carmanville, Nfld.	
Blunt, Harry W	Com. 3	743 University St., Montreal	Up. 1475
		Granby, Que.	
Blustein, David	Phar. 2	668a Colonial Ave., Montreal	Bel. 3149
Bogante, Jack R	Arts 3	3152 Papineau Ave., Montreal	Cal. 5923-J
*Bogue, Arthur H	Arts P	162a Prudhomme Ave., Montreal	
Bolton, Richard E	Arts 1	577 Roslyn Ave., Westmount, Que.	West. 1057
Bonavitzky, Jack	Phar.	Apt. 4, 421 Esplanade Ave., Montreal	
		84 Union St., Sydney, N.S.	
Boness, Jacob	Dent. 2	32 Duluth Ave. W., Montreal	Bel. 7113-J

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		Chesley, Ont.	
Booth, Robert J.	Arts 4	Wesleyan Theo. College, Montreal.	Up. 0290
		184 Bank St., Ottawa, Ont.	
Booth, Leonard.	Ap. Sci. 1	574 University St., Montreal.	Up. 4293-M
Borts, Paul.	Law 2	176 St. George St., Montreal.	Lan. 1549
Bostock, Hugh S.	Grad. Sch. 1	304 Prince Arthur St. W., Montreal.	Plat. 3624
		Monte Creek, B.C.	
Bostock, William N.	Ap. Sci. 4	304 Prince Arthur St. W., Montreal.	Plat. 3624
		Monte Creek, B.C.	
Bosworth, Clarence M.	Med. 1	811 University St., Montreal.	Plat. 6979
		471 W. 145th St., New York, N.Y.	
Boucher, Harold H.	Med. 4	464 Sherbrooke St. W., Montreal.	Up. 6220
		Chilliwack, B.C.	
Bouillon, Ernest L.	Ap. Sci. 5	Y.M.C.A., Drummond St., Montreal.	Up. 6500
		Paspebiac, Que.	
Boulton, Beverly K.	Ap. Sci. 4	823 University St., Montreal.	Plat. 0354
		5 College Court, Quebec, Que.	
Bourgoin, Henri E.	Arts P	826 Lorne Crescent, Montreal.	
Bourne, Austin H.	Ap. Sci. 4	43 Tnird St., St. Lambert, Que.	St. Lamb.518
Bourne, C. Clayton.	Arts 2	4174 St. Catherine St., Westmount	
		Que.	West. 3927
Bourne, Charles R.	Grad. Sch.	4174 St. Catherine St., Westmount.	
Bourque, Edgar G.	Arts 2	139 DeNormanville St., Montreal.	
Bowering, Benjamin.	Arts 2	756 University St., Montreal.	Up. 0290
		43 King's Rd., St. John's, Nfld.	
Bowman, Frederick B.	Med. 4	464 Sherbrooke St. W., Montreal.	Up. 6220
		Southampton, Ont.	
Boyer, Raymond.	Arts 1	708 Mountain St., Montreal.	Up. 2811
Boyes, Watson.	Grad. Sch.	4360 St. Catherine St., Westmount,	
		Que.	
		205 Newland Ave., Hull, Eng.	
Bradshaw, Frederick W.	Ap. Sci. 4	823 University St., Montreal.	Plat. 0354
Brain, Cecil.	Ap. Sci. 2	756 University St., Montreal.	Up. 0290
		Grand Falls, Nfld.	
Branscombe, Arthur F.	Ap. Sci. 3	4357 Montrose Ave., Westmount,	
		Que.	West. 1960
Brannen, Edmond J.	Law 1	5031 Park Ave., Montreal.	Bel. 4326
Braunstein, Moses M.	Med. 2	1543 Jeanne Mance St., Montreal.	Bel. 7187-W
Bray, Gerald C.	Law 2	583 Dorchester St. W., Montreal.	Up. 5836
Breithaupt, Martha B.	Arts 1	Royal Victoria College, Montreal.	Plat. 0078
		66 Margaret Ave., Kitchener, Ont.	
Breithaupt, Paul T.	Com. 3	811 University St., Montreal.	Plat. 6979
		108 Queen St. N., Kitchener, Ont.	
Bremner, Douglas O.	Ap. Sci. 3	374 Roslyn Ave., Westmount, Que.	West. 1573
Bremner, Marjorie B.	Soc. Workers 2.	553 Champagneur Ave., Outremont,	
		Que.	At. 2433
Brewer, Wilfred R.	Med. 1	591 University St., Montreal.	
		279 State St., Presque Isle, Me.	
Brewster, Constance E.	Grad. Nurses	Royal Victoria Hospital, Montreal.	
		55 Chestnut Ave., Brantford, Ont.	
Brierley, James G.	Arts 3	623 Sydenham Ave., Westmount, Que.	West. 0594
Brink, Robert H.	Med. 2	849 Oxenden Ave., Montreal.	Plat. 5707
		125 N. Main St., Cortland, N.Y.	
Brock, Constance M.	Arts 1	610 Clarke Ave., Westmount, Que.	West. 7370
Brock, Hugh M. H.	Ap. Sci. 2	316 Pine Ave. W., Montreal.	Plat. 4279
Brodie, Dorothy M.	Arts 3	Royal Victoria College, Montreal.	Plat. 0078
		Iberville, Que.	
Brodie, Gwendolyn D.	Arts 3	3215 St. James St., Montreal.	Wal. 3880
Brodie, LeSueur.	Arts 3	287 Laval Ave., Montreal.	East 0202
Brodie, Maurice.	Med. 2	745 Shuter St., Montreal.	Plat. 3077
		132 Driveway, Ottawa, Ont.	
Bronson, Harvey N.	Arts 4	58 McTavish St., Montreal.	Up. 2392
		138 Erie Ave., Hamilton, Ont.	
Brookfield, John F.	Com. 1	50 Chesterfield Ave., Westmount, Que.	West. 4811
Brooks, Eleanor I.	Arts 1	473 Clarke Ave., Westmount, Que.	West. 4998

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Brooks, May A.	Phy. Ed. 2	473 Clarke Ave., Westmount, Que.	West. 4998
Brosseau, Leo A.	Arts 1	365 Sherbrooke St. E., Montreal	
Brotman, Herbert L.	Arts 3	1238 St. Urbain St., Montreal	Bel. 9799
Brouillet, Joseph A.	Com. 1	172 Milton St., Montreal	Plat. 2579
Brown, Anna V.	Arts 2	17 Royal Ave., N.D. de Grace, Montreal	Wal. 3861
Brown, Colin B.	Ap. Sci. 4	707 Shuter St., Montreal	Plat. 0427
		613 First Ave., Quebec, Que.	
Brown, Ella M.	Arts 4	751 Shuter St., Montreal	Plat. 0175
		Kensington, P.E.I.	
Brown, George	Arts 1	40 St. Luke St., Montreal	
*Brown, George M.	Arts 2		
		Cornwall, Ont.	
Brown, Harold R.	Dent. 3	644 Belgium Ave., Westmount, Que.	West. 1679
Brown, James L.	Med. 2	468 Sherbrooke St. W., Montreal	Up. 7557
		2302 Scarth St., Regina, Sask.	
Brown, Laurence W.	Med. 5	320 Prince Arthur St. W., Montreal.	Plat. 0761
		204 Daly Ave., Ottawa, Ont.	
Brown, Lyla I.	Arts 3	242 Clifton Ave., N.D. de Grace, Montreal	Wal. 0554
*Brown, Peter R.	Phar. 1		
		St. Anne de Bellevue, Que.	
Brown, Richard C.	Arts 3	743 University St., Montreal	Up. 1475
		234 S. Milton St., Sarnia, Ont.	
Brown, Ronald E.	Med. 3	293 Sherbrooke St. W., Montreal	Plat. 0122
		Box 2, Stoughton, Sask.	
Brown, Thomas M.	Med. 1	320 Prince Arthur St. W., Montreal.	Plat. 0761
		430 Daly Ave., Ottawa, Ont.	
Brown, Walter F.	Ap. Sci. 2	2060 Esplanade Ave., Montreal	
Brown, Wilfred H.	Arts 4	751 Shuter St., Montreal	Plat. 0175
		Kensington, P.E.I.	
Browne, John S. L.	Med. 1, Arts 4	380 Elm Ave., Westmount, Que.	West. 3032
Brownstein, Charles	Grad. Sch. 1	983 St. Lawrence Blvd., Montreal	
Bruger, Moses	Arts 4	1449 Clarke St., Montreal	Bel. 6756-F
Bruker, Samuel	Arts 1	93 Colonial Ave., Montreal	Lan. 7048
Bryant, James S.	Ap. Sci. 2	1991a De la Roche St., Montreal	Cal. 3640-J
Bubroff, Isadore	Law 3	1087 Clarke St., Montreal	Plat. 4547
Buchanan, Edward T.	Ap. Sci. 1	299 Clifton Ave., N.D. de Grace, Montreal	Wal. 1456
Buckley, Patrick	Arts P	428 Christophe St., Montreal	
		County Cork, Ireland.	
Buckman, Barnet	Arts 3	174 Laval Ave., Montreal	East 5836
Budden, William H.	Ap. Sci. 1	441 Mackay St., Montreal	Up. 2102
Buffam, Basil S. W.	Grad. Sch.	756 University St., Montreal	
		Pertn, Ont.	
Burbank, Alton W.	Dent. 3	66 6th Ave., Lachine, Que.	Lach. 365-J
Burbank, Erwin C.	Dent. 2	66 6th Ave., Lachine, Que.	Lach. 365-J
Burgess, Carl A.	Dent. 4	158 Metcalfe St., Montreal	Up. 7541
		201 Queen St., Moncton, N.B.	
Burke, Hugh E., M.D.	Arts P	Central Y.M.C.A., Montreal	
		Little Metis Beach, Que.	
Burland, B. Robins	Ap. Sci. 3	202 Milton St., Montreal	Plat. 0474
		25 Linden Terrace, Ottawa, Ont.	
Burland, Miriam S.	Arts P	84 Victoria Ave., St. Lambert, Que.	St. Lamb. 11
Burnett, Dillon	Arts P	Apt. 1, 260 Guy St., Montreal	
		23 W. 129th St., New York, N.Y.	
Burns, Alberta L.	Grad. Nurses 1.	351 Edward Charles St., Montreal	
		72 St. James St., St. John, N.B.	
Burns, Dean K.	Grad. Sch. 1	67 McTavish St., Montreal	
		Pembroke, Ont.	
Burns, Ralph M.	Med. 1	591 University St., Montreal	
		Houlton, Me.	
Burton, Frederick R.	Ap. Sci. 2	743 University St., Montreal	Up. 1475
		Waterville, Que.	
Burton, Lawrence S.	Dent. 2	158 Metcalfe St., Montreal	Up. 7541
		Renfrew, Ont.	
Burton, Margaret F.	Phy. Ed. 1	724 University St., Montreal	Up. 3396
		114 Bedford Road, Toronto, Ont.	
Burwell, William K.	Med. 4	114 St. Luke St., Montreal	Up. 1455
		Renfrew, Ont.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO
Butler, William S.	Med. 5	743 University St., Montreal 11 Fairmont Ave., Ottawa, Ont.	Up. 1475
Butt, Herbert M.	Arts 1	Wesleyan Theo. College, Montreal Harbour Grace, Nfld.	Up. 0290
Bydwell, Humphrey B.	Arts 3	359 Kensington Ave., Westmount, Que.	West. 4541
Byers, Janet E.	Com. 1	Royal Victoria College, Montreal 517 Lucie Court, Fort William, Ont.	Plat. 0078
Byrne, J. Arthur	Med. 4	847 Lorne Crescent, Montreal 48 Great George St., Charlottetown, P.E.I.	Plat. 0937
Caine, Mona M.	Arts 2	386 Sherbrooke St. W., Montreal 600 West 133rd St., New York, N.Y.	Up. 4380
Calder, Frank	Ap. Sci. 1	186 Grand Blvd., Montreal	Wal. 3774
Caldwell, Guy T.	Com. 3	713 St. Hubert St., Montreal 88 Henderson Ave., Ottawa, Ont.	East 9409-W
Caldwell, Robert J.	Med. 2	Wesleyan College, Montreal 10 Hall St., Moncton, N.B.	Up. 5981
Call, Russell B.	Ap. Sci. 1	16 St. Famille St., Montreal 88 Quebec St., Sherbrooke, Que.	
Callaghan, Walter J.	Ap. Sci. 2	11 Parkman Place, Westmount, Que.	West. 5812
Camerlain Homer H.	Com. 1	116 St. Denis St., St. Lambert, Que.	
Cameron, Alexander F.	Arts 2	609 Clarke Ave., Westmount, Que.	West. 2884
Cameron, Alice V.	Arts 4	912 Comte St., Montreal	Up. 2690
Cameron, Anna J.	Soc. Workers	322 Beaver Hall Hill, Montreal	Up. 3750
Cameron, Dorothy G.	Arts 2	St. Joseph Hospital, Glace Bay, C.B. 25 Grey Ave., N.D. de Grace, Montreal	West. 2642
Cameron, Henry G.	Grad. Sch. 1	405 Mance St., Montreal 2722 20th Ave., Regina, Sask.	
Cameron, John A.	Ap. Sci. 1	143 McLaren St., Ottawa, Ont.	
Cameron, Mabel A.	Arts 2	601 University St., Montreal Cornwall, Ont.	Up. 8339-W
Cameron, Margaret B.	Med. 2	384 Lansdowne Ave., Westmount, Que.	
Cameron, Olive L. E.	Arts 3	Royal Victoria College, Montreal 301 Wilbrod St., Ottawa, Ont.	Plat. 0078
Cameron, Robert J.	Com. 2	304 Prince Arthur St. W., Montreal. 143 McLaren St., Ottawa, Ont.	Plat. 3624
Cameron, Viola M.	Arts 1	756 Sherbrooke St. W., Montreal	Up. 7265
Campbell, Andrew K.	Arts 4	976 Tupper St., Montreal Ormstown, Que.	Up. 4474
Campbell, Christopher F.	Ap. Sci. 4	128 Bishop St., Montreal 13 Hamilton St., St. John's, Nfld.	Up. 7268
Campbell, Ethelred E. A.	Law 1	Strathcona Hall, Montreal Giddy Hall, P.O., St. Elizabeth, Jamaica, B.W.I.	Up. 1086
Campbell, Gordon D.	Arts 2	123 Crescent St., Montreal	Up. 1150
Campbell, Virginia J.	Arts 1	Royal Victoria College, Montreal Windsor Mills, Que.	Plat. 0078
Campbell, William G.	Arts P	71 Hutchison St., Montreal Churubusea, N.Y.	
Campbell-Brown, Hugh I.	Med. 2	McGill Union, Montreal The Manse, Wellington, V.I., B.C.	Up. 4101
Camplong, Lloyd W.	Ap. Sci. 1	652 Wilson Ave., Montreal	Wal. 3811
Cann, Braxton F.	Med. 1	587 University St., Montreal Somerset, Bermuda, B.W.I.	Up. 4597-F
Cantero, Antonio	Med. 3	395 Mance St., Montreal 561 Queen St. W., Sault Ste. Marie, Ont.	Plat. 5467
Cape, Gordon E.	Ap. Sci. 1	45 5th Ave., Lachine, Que.	
Capelovitch, Victor	Phar.	91 Villeneuve St. W., Montreal	Bel. 0906-J
Caplan, David	Phar.	1645 Mance St., Montreal	Bel. 7658-J
Caplan, Israel A.	Phar. 1	731b Cadieux St., Montreal	Lan. 6649
Caplan, Joseph S.	Arts 3	1525 Mance St., Montreal	Bel. 3568-J
Caplan, Samuel L.	Arts 4	768 Notre Dame St. W., Montreal	Main 3887
Cardonsky, Mary	Arts 2	200 Villeneuve St. W., Montreal	Bel. 6183-W
Carl, Selma C.	Arts 4	88 St. Luke St., Montreal	Up. 4887-F
Carley, William H.	Com. 2	Strathcona Hall, Montreal 221 Florence St., Ottawa, Ont.	Up. 1086

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO
Carney, John A.	Dent. 2	389 St. Andre St., Montreal	East 6248-W
Caron, Joseph R.	Arts 1	168 St. Catherine Rd., Outremount, Que.	At. 0004
Carson, Elmer F.	Com. 1	211 Main Road, Dorval, Que.	Lach. 78-W
Carson, Isobel	Soc. Workers	4920 Sherbrooke St., Westmount, Que.	West. 2539
Carson, James R.	Dent. 2	879 Wellington St., Montreal	York 1134
Carson, Kenneth B.	Arts P	Lorne Apts., Lorne Crescent, Montreal Rexton, N.B.	
Carter, Beatrice M. L.	Arts 1	312 Drummond St., Montreal	Up. 5569
Carter, Kenneth LeM.	Com. 3	53 Belvedere Rd., Westmount, Que.	West. 0818
Case, A Wright	Com. 3	718 Shuter St., Montreal 33 Duke St., St. Catharines, Ont.	Plat. 5622
Casey, Edward M.	Med. 2	468 Sherbrooke St. W., Montreal Milltown, N.B.	Up. 7557
Casgrain, John V.	Arts 2	910 Dorchester St. W., Montreal	Up. 1778
Cashin, Martin F., M.D.	Arts P	Dept of Physiology, McGill University, Montreal St. John's, Nfld.	
Cassidy, Joseph F.	Phar.	79 Laporte Ave., Montreal	
Casselman, Hyman	Med. 3	992 Cadieux St., Montreal	Plat. 2050
Cave, Allister E.	Grad. Sch.	756 University St., Montreal 3 Monroe St., St. John's, Nfld.	Up. 0290
Cayford, Elmer H.	Med. 4	103 St. Famille St., Montreal Wycollar, Sask.	Plat. 6518
Chabot, Arthur J.	Ap. Sci. 4	475 Durocher St., Montreal	At. 0084
Chaikin, Harold S.	Com. 1	558 Notre Dame St. W., Montreal	
Chait, Samuel	Med. 1	53 Mozart Ave. W., Montreal	Cal. 1742-J
Chalk, May L.	Arts 4	4951 Western Ave., Westmount, Que.	West. 2090
Chalker, Chauncey R.	Ap. Sci. 4	810 University St., Montreal Forest Rd., St. John's, Nfld.	Plat. 9109
*Challenger, Cecil A.	Dent. 3	St. Kitt's, B.W.I.	
Chalmers, Frank Burne	Med. 4	468 Sherbrooke St. W., Montreal 1927 Angus St., Regina, Sask.	Up. 7557
Chan, Qui Hin	Med. 5	116 Chenneville St., Montreal Victoria, B.C.	Up. 5020
Chapman, Thomas J. C.	Ap. Sci. 1	St. Johns, Que.	
Charles, Ethelbert D. B.	Med. 4	New Medical Bldg., McGill University, Montreal St. George's, Grenada, B.W.I.	Plat. 4978
*Charron, Denis	Arts 3	188 Mentana St., Montreal	
Chataway, Helen D.	Grad. Sch.	Y.W.C.A., Dorchester St. W., Montreal 137 Scotia St., Winnipeg, Man.	
Chauvin, Henri	Ap. Sci. 2	80 St. Denis St., Montreal	East 6905-W
Chauvin, Margaret	Phy. Ed. 2	720 Maplewood Ave., Montreal	At. 1696
Cheasley, Clifford H.	Arts 1	100 Joliette St., Montreal	Clair. 6576-W
Cheesman, Frederick J.	Med. 2	468 Sherbrooke St. W., Montreal Fairville, St. John, N.B.	Up. 7557
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		231 Queen St., Preston, Ont.	
Clarholm, Victor	Arts 2	405 Mackay St., Montreal	Up. 3496
Clark, Alan C	Com. 1	517 Clark Ave., Westmount, Que.	West. 2255
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Cohen, Daniel	Arts 1	143 Mt. Royal Ave. E., Montreal	
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Cohen, Harold	Arts 1	646 Henri Julien St., Montreal	
Cohen, Hyman	Phar. 1	161 Casgrain St., Montreal	
Cohen, Jacob	Med. 5	566 St. Dominique St., Montreal	Lan. 7485
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Cope, Francis C.	Law 1	460 Wood Ave., Westmount, Que.	West. 0273
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Dainow, Joseph	Arts 3	139 Laurier Ave. W., Montreal	Bel. 0508-F
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*D'Arcy, John N	Arts 3		

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Darwin, Theodore E.	Arts 1	98 Columbia Ave., Westmount, Que.	West. 6187-J
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Davidson, John A.	Arts 1	626 Belgium Ave., Westmount,Que.	West. 6836
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Davidson, Marjorie M.	Phy. Ed. 1	724 University St., Montreal 9629 102 Ave., Edmonton, Alta.	Up. 3369
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Davis, Hugh P.	Med. 3	776 University St., Montreal 49 Pearl St. W., Brockville, Ont.	Up. 9173
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Donovan, George J.	Med. 5	62 St. Luke St., Montreal Main St., Woodstock, N.B.	Up. 0005
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Dowling, Louis A.	Com. 1	495 Elm Ave., Westmount, Que.	West. 5179
Doyle, Peter J.	Med. 2	179 Dorchester St. W., Montreal 188 Columbus Ave., New York,N.Y.	Plat. 7614
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Dunn, Percy R.	Med. 2	125a Hutchison St., Montreal Montague, P.E.I.	
Dunn, William F.	Med. 2	125a Hutchison St., Montreal Montague, P.E.I.	
Dunne, Francis S.	Med. 3	394 Jeanne Mance St., Montreal 56 College Ave., Ottawa, Ont.	Plat. 2483
Dunston, Walter R.	Med. 1	587 University St., Montreal 1009 N. Fourth St., Richmond, Va.	Up. 4597-F
Dunton, Elise W.	Arts 4	51 Trafalgar Ave., Westmount, Que.	West. 3494
Dunton, Roberta R.	Arts 3	51 Trafalgar Ave., Westmount, Que.	West. 3494
Durant, Bessie	Arts P.	223 Benny Ave., N.D. de Grace, Montreal	
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Dworkin, Simon	Med. 3	2226 St. Urbain St., Montreal	Bel. 0446-M
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Dyer, Warwick S. C.	Arts 3	1133 St. James St., Montreal 40 High St., Georgetown, Demerara, B.W.I.	
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Eberts, Edmond H.	Arts 1	219 Peel St., Montreal	Up. 2678
Echenberg, Isidore	Med. 3	454 Clarke St., Montreal 29 Magog St., Sherbrooke, Que.	
Echlin, Frank A.	Arts 1	Y.M.C.A., Drummond St., Montreal. 347 Daly Ave., Ottawa, Ont.	Up. 6500
Eddy, Earl B.	Arts 4	58 McTavish St., Montreal 174 Brant Ave., Brantford, Ont.	Up. 2392
Edel, Abraham	Arts 2	854 Lorne Crescent, Montreal	Plat. 5439
Edel, Leo	Arts 2	854 Lorne Crescent, Montreal	Plat. 5439
Edward, Francis A.	Dent. 2	309 Mackay St., Montreal Lacolle, Que.	Up. 6441-J
Edwards, Margaret C.	Grad. Sch. 2	Royal Victoria College, Montreal 2 Mecklenburg St., St. John, N.B.	
Eichenbaum, Margaret	Com. P.	2110 St. Urbain St., Montreal	Bel. 3972-J
Ein, Celia	Arts 1	41 Chesterfield Ave., Westmount, Que.	West. 8572
Elbert, Samuel G., Jr.	Med. 1	40 Lorne Ave., Montreal 1000 French St., Wilmington, Del.	
Elder, Maureen	Med. 4	Box 51, Wolfville, N.S.	
Eldridge, Kenneth A.	Arts 3	308 Prince Arthur St. W., Montreal. St. John's, Antigua, B.W.I.	Plat. 7472
Eley, Edward W. W.	Com. 1	320 Prince Albert Ave., Westmount, Que.	West. 6089
Elimeleck, Issie	Arts 1	432 Laval Ave., Montreal	Bel. 4300
Elliott, Howard L.	Med. 1	540 Cote St. Antoine Rd., Westmount, Que.	West. 2795-W
Elliott, Erwin H.	Com. 3	811 University St., Montreal 6544 Maple St., Vancouver, B.C.	Plat. 6979
Ellis, David H.	Ap. Sci. 4	141 Hutchison St., Montreal 203 Water St., St. John's, Nfld.	Plat. 4629
Ellison, Albert	Arts 4	64 St. Famille St., Montreal	Plat. 4094
Ellison, Audry E.	Soc. Workers 2	496 Oxford Ave., Montreal	Wal. 0898
Ellison, Hilda	Com. 2	64 St. Famille St., Montreal	Plat. 4094

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Ellison, Maxwell	Arts 4	64 St. Famille St., Monteral	Plat. 4094
Ellman, Isidore	Med. 2	829 University St., Montreal	Plat. 1681
		199½ Douglas Ave., St. John, N.B.	
Empey, Russell	Arts 1	9 Tara Hall Ave., Montreal	Plat. 0198
		Finch, Ont.	
Engelberg, Samuel S.	Com. 1	327 Laval Ave., Montreal	East 6304-J
		New York, N.Y.	
England, Esther R.	Arts 4	126 Bishop St., Montreal	Up. 1372
Epstein, Elsie	Com. 2	187 Decarie Blvd., Montreal	West. 8628
Epstein, Louis	Arts 1	1213 St. Urbain St., Montreal	Bel. 0069-J
Epstein, Samuel	Arts P	1655 Mance St., Montreal	Bel. 6989-W
Erdrich, Harold J.	Arts 2	50 St. Famille St., Montreal	Plat. 3796
*Erlick, Max	Arts 1	124 Pine Ave. E., Montreal	East 8475-W
Esdale, William Rupert	Med. 4	320 Prince Arthur St. W., Montreal.	Plat. 0761
		11 Osborne Rd., Ottawa, Ont.	
Este, Charles H.	Arts P	58 McTavish St., Montreal	Up. 2392
		Antigua, B.W.I.	
Estey, Carl A.	Ap. Sci. 3	161 Mansfield St., Montreal	Up. 9542
		Grand Falls, N.B.	
Etziony, Mordecai	Arts 2	971 Cadieux St., Montreal	East 5121
Evans, Arthur	Grad. Sch.	Strathcona Hall, Montreal	Up. 1086
		39 Upland Rd., Selby Park, Birmingham, Eng.	
Evans, John M.	Ap. Sci. 2	2121 Mance St., Montreal	Bel. 0133
Evans, Thomas O.	Ap. Sci. 3	220 Prudhomme Ave., Montreal	Wal. 4139
Eve, Frank M.	Ap. Sci. 4	456 Mackay St., Montreal	Plat. 9302
		Weylea, Guildford, Surrey, Eng.	
Eve, Joan	Arts 1	490 Mountain Ave., Westmount, Que.	West. 8169
Eveleigh, Frederic R.	Com. P	475 Roslyn Ave., Westmount, Que.	West. 1019
Evelyn, Melville Desmond	Med. 2	587 University St., Montreal	Up. 4597-F
		Charlestown, Nevis, B.W.I.	
Everett, Charles D.	Arts 4	127 Drummond St., Montreal	Up. 6500
		St. Andrews, N.B.	
Ewing, Estelle	Soc. Workers	168a Mansfield St., Montreal	Up. 0965
Fagan, John W.	Arts 2	168b Mansfield St., Montreal	
		165 Summer St., Fitchburg, Mass.	
Fair, Louisa M.	Arts P	207 Mansfield St., Montreal	
Fair, William	Ap. Sci. 1	2434 20th Ave., Roesmount, Montreal	Clair. 3914-W
Fairbairn, Jean R.	Arts 2	75 St. Luke St., Montreal	Up. 4730
Fairbank, Charles O.	Ap. Sci. 1	377 Mountain St., Montreal	Up. 2143
		Petrolia, Ont.	
Fairman, Frederick W.	Com. 3	28 Rosemount Ave., Westmount, Que.	West. 5444
Falls, Francis C. B.	Com. 3	304 Prince Arthur St. W., Montreal.	Plat. 3624
		Amherstburg, Ont.	
Falls, Franklin N. K.	Grad. Sch. 1	14 Draper Ave., Montreal	
Farmer, Walter D.	Med. 4	804 Shuter St., Montreal	Plat. 8476
		Cumberland, Ont.	
Farrar, Cecil F.	Com. 1	1113 Greene Ave., Westmount, Que.	
		Georgetown, British Guiana.	
Farrar, Norman	Ap. Sci. 4	151 Ash Ave., Montreal	York 1709-W
		Melbourne, Que.	
Fasulas, Constantine A.	Arts 2	Central Y.M.C.A., Montreal	Up. 6500
		14 Braddock Park, Boston, Mass.	
Featherston, Florence E.	Arts 2	331 Addington Ave., Montreal	Wal. 4325
Feeney, Neil	Med. 3	94 Pine Ave. W., Montreal	Plat. 5775
Feigelson, Hyman E.	Arts 2	1400 Clarke St., Montreal	Bel. 7138-J
		Detroit, Mich.	
Feigenbaum, Jacob	Med. 5	1281 St. Urbain St., Montreal	Bel. 5005-J
Feigenbaum, Moses	Law 2	1281 St. Urbain St., Montreal	Bel. 5005-J
Feiner, Jacob H.	Ap. Sci. 1	357 Dorion St., Montreal	East 9174-W
Fellowes, Norton A.	Ap. Sci. 3	212 Westmount Blvd., Westmount, Que.	West. 0259
Fels, Sol	Law 3	87 Esplanade Ave., Montreal	Bel. 3650-W
Fensom, Jean P.	Arts 1	18 Forden Ave., Westmount, Que.	West. 7476
Ferguson, James A.	Med. 5	464 Sherbrooke St. W., Montreal	Up. 6220
		Cumberland, Ont.	
Ferguson, Marion E.	Arts 2	4821 St. Catherine St. W., Westmount, Que.	West. 1663

*Withdrew early in the session.

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Fiander, Richard G.	Arts 1	Diocesan Theo. College, 743 University St., Montreal English Harbour West, Fortune Bay, Nfld.	Up. 1475
Field, Beryle E.	Phy. Ed. 2	51 Neptune Blvd., Strathmore, Que.	Lach. 542-4
Findlay, Robert E.	Ap. Sci. 2	308 Prince Arthur St. W., Montreal Compton, Que.	Plat. 7472
Findlay, Stanley P.	Med. 5	348 Sherbrooke St. W., Montreal 1368 Hornby St., Vancouver, B.C.	Up. 1086
Finkelstein, Moses	Med. 3	1762 Clarke St., Montreal	Bel. 3518-J
Finkelstein, Norman F.	Dent. 3	2756 Hutchison St., Montreal	At. 4433
Finlay, Hay	Arts P.	4560 St. Catherine St. W., Westmount, Que.	
Finlay, Elizabeth H.	Arts P.	273 Bishop St., Montreal	
Finney, William H.	Med. 3	5884 Park Ave., Montreal 1038 Harper Ave., Los Angeles, Cal.	At. 1808-W
Fish, Nathan	Arts 1	65 Mt. Royal Ave. W., Montreal 64 St. Dominique St., Quebec, Que.	
Fisher, Trenholm L.	Med. 3	119 Mountain St., Montreal 231 Polson Ave., Winnipeg, Man.	Up. 2585
Fitch, Benjamin	Arts 2	640 St. Lawrence Blvd., Montreal	Plat. 3895
Fitzmaurice, Lawrence W.	Med. 5	464 Sherbrooke St. W., Montreal Campbellton, N.B.	Up. 6220
Fletcher, Walter R.	Med. 5	849 Oxenden Ave., Montreal 415 Euclid Ave., Toronto, Ont.	Plat. 5707
Flint, Orin Q., Jr.	Med. 1	815 Shuter St., Montreal Athens, N.Y.	Plat. 6854
Fogg, Lydia A.	Arts P.	472 Sherbrooke St. W., Montreal St. Michaels, Md.	Up. 0151
Fogul, Harry	Arts 3	1794 St. Urbain St., Montreal	Bel. 7017-F
Fong, William H.	Ap. Sci. 2	166 St. Urbain St., Montreal	East 6132
Forbes, John C.	Grad. Sch. 3	108a St. Famille St., Montreal Melford, N.S.	
Ford, Ross H.	Arts 4	383b Aylwin St., Montreal	
Forrest, James R.	Med. 5	191 St. Famille St., Montreal	Plat. 2656
Forsey, Eugene A.	Arts 4	770 University St., Montreal 187 Fourth Ave., Ottawa, Ont.	Up. 5981
Forster, David S.	Med. 5	262 Decelles Ave., Montreal	At. 0737-J
Forsyth, Birdie J.	Arts 1	432 Frontenac St., Montreal	Clair. 2812-W
Forsyth, David T. I.	Arts 3	432 Frontenac St., Montreal	Clair. 2812-W
Forsythe, Albert E.	Med. 1	Central Y.M.C.A., Montreal Pt. Antonio, Jamaica, B.W.I.	Up. 6500
Fortune, Robert V.	Arts 4	67 McTavish St., Montreal 265 Morris Ave., Grand Rapids, Mich.	Up. 9130
Foster, Joan M. V.	Grad. Sch. 2 Arts P.	Royal Victoria College, Montreal 36 Cobourg St., St. John, N.B.	
Fowler, Alan F.	Med. 3	320 Prince Arthur St. W., Montreal 542 King Edward Ave., Ottawa, Ont.	Plat. 0761
Fowler, Douglas B.	Med. 5	464 Sherbrooke St. W., Montreal Raymond, Alta.	Up. 6220
Fowler, Grant McA.	Grad. Sch.	259 Prince Arthur St. W., Montreal. Fort Coulonge, Que.	
Fox, Tovia	Med. 2	1555 Esplanade Ave., Montreal	Bel. 8186-J
Fraid, Bertram K.	Com. 2	368 Kitchener Ave., Westmount, Que.	West. 3187
Francis, Francis	Ap. Sci. 1	444 Prince Albert Ave., Westmount, Que.	West. 1448
Francis, Selby W.	Arts 2	756 University St., Montreal Broad Cove, Nfld.	Up. 0290
Frankel, Edgar G.	Arts P.	460 Strathcona Ave., Westmount, Que.	West. 0090
Franklin, Richard E.	Arts 4	348 Sherbrooke St. W., Montreal Maxville, Ont.	Up. 1086
Fraser, Felix B.	Arts 1	4530 Park Ave., Montreal 36 Edward St., Port of Spain, Trinidad, B.W.I.	At. 5326-F
Fraser, James G.	Com. 2	304 Prince Arthur St. W., Montreal 380 Elgin St., Ottawa, Ont.	Plat. 3624
Fraser, John D.	Ap. Sci. 4	196 Milton St., Montreal 59 Cobourg Rd., Halifax, N.S.	Plat. 3407

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Fraser, Peter G.	Com. 2	855 Oxenden Ave., Montreal	Plat. 3398
		Bridgeville, N.S.	
Fraser, Simon B.	Med. 2	128 Bishop St., Montreal	Up. 7268
		Williamstown, Ont.	
Freedman, Ernest O.	Arts 4	366 Kensington Ave., Westmount, Que.	West. 6040
Freedman, Hyman	Arts 2	110 Chenneville St., Montreal	Lan. 1077
Freedman, Leon D.	Med. 1 & Arts 4	2350 St. Urbain St., Montreal	Cal. 4091-W
Freedman, Louis	Arts 1	280 St. Urbain St., Montreal	
Freedman, Pearl R.	Arts P	366 Kensington Ave., Westmount, Que.	West. 6040
Freiman, Dorothy	Arts 1	579 Roslyn Ave., Westmount, Que.	West. 1704
		149 Somerset St., Ottawa, Ont.	
Friedman, Victor E.	Ap. Sci. 4	322 Elm Ave., Westmount, Que.	West. 1191
Frith, John Rowland	Ap. Sci. 2	202 Milton St., Montreal	Plat. 0474
		72 Cobourg St., St. John, N.B.	
Frohlich, Harry	Com. 1	1656 Clarke St., Montreal	Bel. 8884-W
Frohlich, Louis I.	Arts 4 & Med. 1	1656 Clarke St., Montreal	Bel. 8884-W
Fry, A Wentworth	Ap. Sci. 1	29 Bellevue Ave., Westmount, Que.	West. 2681
Fry, Edmund B.	Ap. Sci. 4	29 Bellevue Ave., Westmount, Que.	West. 2681
Fry, William S.	Arts 1	66 McTavish St., Montreal	Up. 7130
Fullerton, Charles W.	Med. 4	57 Clandeboyne Ave., Westmount, Que.	West. 0160
Furois, Louis Philippe	Ap. Sci. 4	P.O. Box 31, Station N.	
		38 McGill College Ave., Montreal	
		La Tuque, Que.	
Gaboury, Marcel	Law 3	324a St. Catherine St. W., Montreal	Up. 4050
Gagnon, Elmore G.	Ap. Sci. 1	629 Rivard St., Montreal	Bel. 2872
Gallant, Joseph A.	Med. 2	40 Lorne Ave., Montreal	Plat. 5056
		3117 2nd Ave., Richmond, Va.	
Gallay, Esther	Arts 4	117 St. Joseph Blvd., Montreal	Bel. 2662
Gallay, Minnie	Med. 3	89 Durocher St., Montreal	Plat. 5430
		1526 13th Ave., W. Calgary, Alta.	
Gallery, Rosemary	Phy. Ed. 2	221 McDougall Ave., Outremont, Que.	At. 2915
Galvin, Edward F.	Com. 1	95 Hutchison St., Montreal	Plat. 5325
		621 Grand St., Troy, N.Y.	
Gamble, Roy F.	Arts P	756 University St., Montreal	Up. 0290
		Lemberg, Sask.	
Gameroff, Myer	Law 3	63 McGill College Ave., Montreal	Up. 8510
		83a 7th Ave., Lachine, Que.	
Gammell, Robert G. M.	Arts 2	94 Durocher St., Montreal	Plat. 2835
Garcin, Cecil R.	Med. 4	202 Milton St., Montreal	Plat. 0474
		Curling, Nfld.	
Gardiner, Muriel K.	Grad. Nurses	208 University St., Montreal	
Gardiner, Ruth A.	Arts 1	2629 Mance St., Montreal	Plat. 3888-J
Gardiner, Sybil S.	Grad. Nurses	3139 St. James St. W., Montreal	
Gardner, Abram	Com. 3	671 Shuter St., Montreal	Plat. 5502
		96 King St., Quebec, Que.	
Gardner, Campbell M.	Arts 1	108 St. Matthew St., Montreal	Up. 3105
Gardner, Edwin A.	Ap. Sci. 3	52 McGill College Ave., Montreal	Up. 1416
		119 Broadway Ave., Ottawa, Ont.	
Gardner, William H.	Arts 4	84 Victoria St., Montreal	Up. 7294
		Pekisko, Alta.	
Garelick, Alexander	Arts 3	2055 Clark St., Montreal	Bel. 2081-J
Garland, Sidney G.	Arts 1	756 University St., Montreal	Up. 0290
		Island Cove, Nfld.	
Garmaise, Ann	Arts P	408 Wiseman Ave., Outremont, Que.	At. 1676
Garmaise, Max	Arts 1	1649 Mance St., Montreal	Bel. 6043-J
Gaslin, Thomas J.	Med. 4	677 Shuter St., Montreal	Plat. 5521
		North Lancaster, Ont.	
Gately, Jerome J.	Med. 3	95 Hutchison St., Montreal	Plat. 5235
Gatenby, Ellis	Dent. 4	1780 St. Urbain St., Montreal	Bel. 9304
		94 Fifth Ave. W., North Bay, Ont.	
Gates, Gordon L.	Arts 1	377 Mountain St., Montreal	Up. 2143
		114 St. James St., London, Ont.	
*Gault, Thomas S.	Arts P	441 University St., Montreal	
Gauthier, Paul	Law 3	635 University St., Montreal	Up. 0994
Gauvin, Hervé A.	Ap. Sci. 3	103 St. Famille St., Montreal	Plat. 6518
		71½ 2nd Ave., Ottawa, Ont.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Gavsie, William H.	Med. 3	829 University St., Montreal 792 Victoria Rd., Sydney, N.S.	Plat. 1681
Geddes, Lloyd F.	Ap. Sci. 4	20 Hutchison St., Montreal Great Village, N.S.	
Gemeroy, Joseph C.	Med. 4	839 Lorne Crescent, Montreal Winchester, Ont.	Plat. 6010
George, Flora A.	Grad. Nurses 1.	723a Querbes Ave., Outremont, Que. Mansonville, Que.	
Gerson, Samuel H.	Arts 1	5249 Park Ave., Montreal	
Gifford, Gordon M.	Ap. Sci. 1	355 Kensington Ave., Westmount, Que.	West. 1274
Giles, B. H. Drummond	Arts P	1036 Dorchester St. W., Montreal	
Gill, Evan W. T.	Ap. Sci. 4	297 Prince Arthur St. W., Montreal. 281 O'Connor St., Ottawa, Ont.	Plat. 2681
Gillander, Erwin W.	Med. 3	95 Hutchison St., Montreal Bury, Que.	Plat. 5235
Gillean, Robert H.	Arts 1	604 Clarke Ave., Westmount, Que.	West. 2722
Gilletz, Colly	Ap. Sci. 2	2372 Waverley St., Montreal	Bel. 4172
Gillies, Jas. N.	Med. 4	623 Union Ave., Montreal Port Daniel Centre, Que.	Plat. 1972
Gillingham, Herbert H. A.	Arts P. & Phy. Ed. P	756 University St., Montreal Hemmingford, Que.	Up. 0290
Gillis, Henry A.	Dent. 1	17 Basset St., Montreal P.O. Box No. 5, New Waterford, C.B.	Plat. 4720
Gilman, Helen Bryant	Com. 1	Royal Victoria College, Montreal La Tuque, Que.	Plat. 0078
Gilman, Mabel P.	Arts 3	Royal Victoria College, Montreal La Tuque, Que.	Plat. 0078
Gilmour, Thomas W.	Arts 2	256 Prince Arthur St. W., Montreal.	Plat. 0858
Gilmour, William A T.	Ap. Sci. 4	811 University St., Montreal 30 Undermount Ave., Hamilton, Ont.	Plat. 6979
Gincherman, Abie	Med. 5	1511 Jeanne Mance St., Montreal	Bel. 3185-W
Ginsberg, Hilliard	Arts 1	2246 St. Urbain St., Montreal	Bel. 6011
Ginsberg, Reuben	Phar.	2075 Hutchison St., Montreal	At. 4343-W
Giovando, Lawrence	Arts 2	756 University St., Montreal Ladysmith, B.C.	Up. 0290
Guilianelli, Leonard S.	Arts 1	5568 1st Ave., Rosemount, Montreal	
Glassco, Ivan R.	Ap. Sci. 3	823 University St., Montreal 195 Charlton Ave. W., Hamilton, Ont.	Plat. 0354
Glassco, John Grant	Com. 3	297 Prince Arthur St. W., Montreal. 2 Evergreen Place, Winnipeg, Man.	Plat. 2681
Glassco, William G.	Med. 2	823 University St., Montreal 242 James St. S., Hamilton, Ont.	Plat. 0354
Glasser, Samuel T.	Med. 2	822 Lorne Crescent, Montreal 1749 Grand Concourse, New York, N.Y.	Plat. 6550
Glassford, Arthur K.	Arts 1	318 Cote St. Antoine Rd., Westmount, Que.	
Glennie, Donald R.	Com. 2	855 Oxenden Ave., Montreal Oxford, N.S.	Plat. 3398
Glickman, Harry	Med. 5	328 Redfern Ave., Westmount, Que.	West. 2132
Glynn, John H.	Arts 1	Room 147, Windsor Hotel, Montreal 2718 E. 77th St., Chicago, Ill.	
Goddard, Arthur L.	Med. 3	67 McTavish St., Montreal Fontabelle, Barbados, B.W.I.	Up. 9130
Goddard, Harold O.	Ap. Sci. 1	757 Bloomfield Ave., Outremont, Que.	At. 0034
Godine, Frank M.	Arts 3	11 Souvenir Ave., Montreal	Up. 0006
Godinsky, Samuel	Arts 2	2106 St. Lawrence Blvd., Montreal.	Bel. 1243
Godwin, Harold B.	Ap. Sci. 1	Ste. Anne de Bellevue, Que.	Ste Anne's, 109
Goforth, William W.	Grad. Sch. 1.	851 University St., Montreal 16 Spadina Rd., Toronto, Ont.	
Goldapple, Jack	Phar.	989 St. Lawrence Blvd., Montreal	Main 5815
Goldberg, Benjamin W.	Med. 1	360 Villeneuve Ave. W., Montreal. 2078 61st St., New York, N.Y.	At. 2474
Goldberg, Harold A.	Dent. 3	4541 Park Ave., Montreal	Bel. 8890
Goldberg, Joseph	Med. 1	35 Colonial Ave., Montreal	Lan. 5786
Goldberg, Max	Phar. 1	95 Drolet St., Montreal	East 6198-W

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Goldblatt, Aaron	Med. 3	841 Cadieux St., Montreal	East 0659-W
Goldenberg, Hyman C	Arts 1	742 St. Catherine St. E., Montreal	East. 2520-J
Goldenberg, Joseph S	Arts 1	4905 Sherbrooke St., Westmount, Que.	
Goldenberg, Maxwell	Dent. 4	1555 Esplanade Ave., Montreal	
Goldenberg, Morris	Law 2	829 University St., Montreal	Plat. 1681
		Campbellton, N.B.	
Golding, Melvyn S	Med. 1	587 University St., Montreal	Up. 4597-F
		Falmouth, Jamaica, B.W.I.	
Goldman, Louis	Med. 5	104 Laval Ave., Montreal	East. 4305
Goldman, Sanford	Dent. 2	685 University St., Montreal	Up. 0681
		28 Wall St., St. John, N.B.	
Goldstein, Charles D	Arts 1	728 Demontigny St. E., Montreal	East 1428-J
Goldstein, Ernest	Arts 2	1094 St. Urbain St., Montreal	Bel. 8959-J
Goldstein, Samuel	Arts 1	2105 Esplanade Ave., Montreal	
Golt, Harold S	Com. 1	162 Pine Ave. E., Montreal	East 3015-W
Goodchild, Chas. H	Com. 3	150 Metcalfe St., Montreal	Up. 3020
		15 Garner St., So. Norwalk, Conn.	
Goodman, Lawrence	Dent. 4	6485 Vianney Ave., Ahuntsic, Montreal	Cal. 5198-2
Goodman, Norma P	Arts 2	5 Lincoln Ave., Montreal	Up. 5572
		118 Sherman Place, Jersey City, N.J.	
Goodnoh, Scott T	Dent. 3	3519 Park Ave., Montreal	
Gordon, Claire M	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		St. Stephen, N.B.	
Gordon, John	Ap. Sci. 4	1018 Queen Mary Rd., Montreal	West. 0270
Gordon, Louis H	Ap. Sci. 1	Central Y.M.C.A., Montreal	Up. 6500
		Glace Bay, N.S.	
Gordon, Margaret H	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		St. Stephen, N.B.	
Gordon, Ney K	Com. 2	823 University St., Montreal	Plat. 0354
		Wallaceburg, Ont.	
Gordon, Samuel	Arts 2	1116 St. Urbain St., Montreal	Bel. 5479-M
Gordon, T. Miles	Arts 2	793 Shuter St., Montreal	Plat. 3613
		306 George St., Sarnia, Ont.	
Gore, Graham M	Arts 2	36 Durocher St., Montreal	Plat. 1461
		Prescott, Ont.	
Gornitsky, I	Dent. 3	26 Rivard St., Montreal	
Gorrie, Graeme Y	Arts 3	811 University St., Montreal	Plat. 6879
Gourlay, William L	Arts 3	67 McTavish St., Montreal	Up. 9130
		Carp, Ont.	
Gradinger, Arnold S	Med. 2	106 Bourget St., Montreal	West. 7665-J
Gradinger, Bernard L	Law 1	106 Bourget St., Montreal	West. 7665-J
Gradinger, Charles H	Med. 5	106 Bourget St., Montreal	West. 7665-J
*Gradinger, Samuel A	Phar.	520a Notre Dame St. W., Montreal.	
Graham, Alice H	Soc. Workers	538 Sherbrooke St. W., Montreal	Up. 0207
Graham, Ernest E	Med. 4	119 Mountain St., Montreal	Up. 2585
		Victoria, B.C.	
Graham, Gavin T. P	Arts 1	Wesleyan Theo. College, Montreal.	Up. 0290
		Arundel, Que.	
Graham, Muriel J	Arts 4	553 Champagneur St., Outremont, Que.	At. 2433
		Arundel, Que.	
Graham, Walter W	Ap. Sci. 4	593 7th Ave., Rosemount, Montreal.	Clair. 6362-J
Granger, Marjorie	Arts 4	696 Victoria Ave., Westmount, Que.	West. 6354
Granger, Ruth F	Com. 1	601 University St., Montreal	Up. 8339-W
		532 Dufferin Ave., London, Ont.	
Granik, Abraham	Ap. Sci. 4	437 Esplanade Ave., Montreal	Bel. 3328-
Grant, Alexander J	Ap. Sci. 2	4611 Park Ave., Montreal	
		4 Adam St., St. Catharines, Ont.	
Grant, Mary M. M	Phy. Ed. 1	4275 Dorchester St., Westmount, Que.	West. 1964
Grant, Samuel C	Med. 1	43 Chaboillez Square, Montreal	
		Frankfield, Clarendon, Jamaica, B.W.I.	
Grant, William H. S	Dent. 4	4332 Montrose Ave., Westmount, Que.	West. 3432
Grassick, Gordon H	Med. 2	468 Sherbrooke St. W., Montreal	Up. 7557
		1604 16th Ave., Regina, Sask.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Gravel, Edith A.	Com. 2	451 Clarke Ave., Westmount, Que.	West. 4189
Gray, Donald A.	Ap Sci. 4	976 Tupper St., Montreal	Up. 4474
Gray, Donald W.	Arts 1	Gardenvale, Que.	St.Ann's 205-J
Gray, Leona I.	Arts 2	25 Chomedy St., Montreal	Up. 3668
Gray, Nelson M.	Arts 1	25 Chomedy St., Montreal	Up. 3668
Gray-Donald, Erceldoune	Ap. Sci. 3	348 Sherbrooke St. W., Montreal	Up. 1086
Greaves, Harold L.	Dent. 3	508 Victoria Ave., Westmount, Que.	West. 4164
Green, Elizabeth B.	Arts 2	Royal Victoria College, Montreal	Plat. 0078
		Cranbrook, B.C.	
Green, John L.	Med. 3	1558 St. Denis St., Montreal	Bel. 8524-W
		75 Emilie St., Brantford, Ont.	
Greenberg, Charles	Com. 1	1425 St. Dominique St., Montreal	Bel. 8935-J
Greenberg, Harry	Ap. Sci. 4	1088 St. Dominique St., Montreal	
Greenberg, Milton	Med. 2	301 Prince Arthur St. W., Montreal.	Plat. 0491
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Held, Harry R	Arts 1	460 Wiseman Ave., Outremont, Que.	At. 3933
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Hodina, Frank A.	Ap. Sci. 3	2590b Waverly St., Montreal	Up. 2840
Hoichberg, Harry	Ap. Sci. 4	1679 Hutchison St., Montreal	At. 2338-W
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Keene, Thomas R.	Ap. Sci. 2	164 Marlowe Ave., Montreal	West. 0957
Keir, David B.	Arts 3	67 McTavish St., Montreal	Up. 9130
		Malpeque, P.E.I.	
Keith, Marion A.	Arts 1	177 Lake Shore Rd., Pte. Claire, Que.	Pte. Claire 2313-3

*Withdrew early in the session

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Kellem, Raymond I.	Arts 1	Strathcona Hall, Montreal 41 Lynwood Ave., Simcoe, Ont.	Up. 1086
Kelland, Frank J.	Com. 2	135 City Councillors St., Montreal	Plat. 0802
Kellnor, Arthur	Med. 2	458 Elm Ave., Westmount, Que.	West. 1495
Kelly, A. Bruce	Med. 4	623 Union Ave., Montreal Box 65, Farnham, Que.	Plat. 1972
Kelly, Jerome J.	Arts 2	496 Chateaubriand Ave., Montreal Renfrew, Ont.	
Kelly, Michael A.	Med. 3	2263 Jeanne Mance St., Montreal 102 Osgoode St., Ottawa, Ont.	Bel. 1348-M
Kennedy, Roy	Med. 4	464 Sherbrooke St. W., Montreal Kensington, P.E.I.	Up. 6220
Kennedy, W. Roland	Med. 5	439 Mance St., Montreal	Plat. 0979
Kenrick, John K.	Com. 1	166 44th Ave., Lachine, Que.	Lachine 579
Kenrick, Norman E.	Com. 3	401 Mance St., Montreal	Plat. 4577
Kensit, Marjorie E.	Phy. Ed. 2	724 University St., Montreal 563 Dovercourt Rd., Toronto, Ont.	Up. 3369
Kerr, John A.	Dent. 3	1204 Des Erables St., Montreal	Bel. 4307-J
Kerr, Samuel M.	Arts 1	67 McTavish St., Montreal Ballyclare, Ireland.	Up. 9130
Kerr, Trevor W.	Ap. Sci. 2	30 Sunnyside Ave., Westmount, Que.	West. 0373
Kersham, Jack	Arts 2	417 Laval Ave., Montreal	
Ketchen, William A.	Ap. Sci. 2	208 Wolseley Ave., Montreal West, Que. Port Alice, B.C.	Wal. 0877-W
Keysor, Phillip S.	Arts 2	35a McGill College Ave., Montreal Plattsburg, N.Y.	
Killam, Donald A.	Ap. Sci. 2	127 Drummond St., Montreal Weymouth, N.S.	Up. 6500
King, Jesse Ed.	Arts 1	Mtl. Diocesan College, Montreal Hemmingford, Que.	Up. 1475
King, Ralph H.	Med. 1	468 Sherbrooke St. W., Montreal P.O. Box 99, Bridgetown, Barbados, B.W.I.	Up. 7557
Kingan, Gordon H.	Ap. Sci. 4	213 Pine Ave. W., Montreal	Up. 4217
Kingston, George H.	Ap. Sci. 2	31 St. Famille St., Montreal Prescott, Ont.	
Kingston, Paul T.	Med. 1	31 St. Famille St., Montreal Prescott, Ont.	
Kirby, Johnston	Arts 2	Strathcona Hall, Montreal 338 S. Vidal St., Sarnia, Ont.	Up. 1086
Kirk, Claude M.	Med. 4	468 Sherbrooke St. W., Montreal Antigonish, N.S.	Up. 7557
Kirk, Thomas E.	Med. 3	40 McGill College Ave., Montreal Antigonish, N.S.	Up. 1202-W
Kirschberg, Abraham	Arts 1	313 Elm Ave., Westmount, Que.	West. 6459
Kisber, Clarence	Arts 1	982 Cadieux St., Montreal	Plat. 2388
Kivenko, Nathan	Com. 1	33 Rachel St. W., Montreal	Bel. 1173-W
Klaehn, Irmgard, A. G.	Arts 3	Royal Victoria College, Montreal 66 Centre St., Stratford, Ont.	Plat. 0078
Klein, Bessie	Phy. Ed. 2	721 Wiseman Ave., Outremont, Que.	At. 3389
Klein, Henry	Dent. 4	180 St. Joseph Blvd. W., Montreal	Bel. 7060-W
Klein, Isaac	Phar. 2	2381 Clarke St., Montreal	Cal. 4177-J
Kleker, Bernard	Med. 2	2203 Papineau Ave., Montreal	Bel. 0460
Klineberg, Florence	Arts 1	4059 Dorchester St. W., Westmount, Que.	West. 6511
Klineberg, Jack	Arts 4	4059 Dorchester St. W., Westmount, Que.	West. 6511
Klineberg, Otto	Med. 5	4059 Dorchester St. W., Westmount, Que.	West. 6511
Knee, Cecil H.	Com. 2	110 Westminster Ave., Montreal West, Que.	Wal. 1245
Knowles, Eustace C.	Arts 2	58 McTavish St., Montreal 7 Selborne Terr., Bradford, Yorks, Eng.	Up. 2392
Knowlton, Paul H.	Ap. Sci. 2	600 Lansdowne Ave., Westmount, Que.	West. 1840
Koff, Arthur K.	Med. 2	685 University St., Montreal Malone, N.Y.	Up. 0681
Kolber, Ben	Med. 4	1089 St. Lawrence Blvd., Montreal	Plat. 2632
Kolber, Harry	Arts 1	1091 St. Lawrence Blvd., Montreal	Plat. 2632
Korenberg, Lyon J.	Arts 2	1815 Esplanade Ave., Montreal	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Kositsky, Abraham	Arts 1	155 Roy St. E., Montreal	
Kosowatsky, Joseph R.	Arts 2	483 Clarke St., Montreal	Plat. 0877
Kouri, John D.	Law 1	201 Marquette St., Montreal	Bel. 6357-W
Krakower, Abraham	Med. 2	683b Henri Julien St., Montreal	Bel. 6281-F
Krakower, Cecil	Arts 1	683b Henri Julien St., Montreal	Bel. 6281-F
Kramer, Sasha	Arts 2	1005 Tupper St., Montreal	
Krasnoff, Max	Phar. 2	1014 Clarke St., Montreal	Plat. 4585
Kuntz, Alfred E.	Med. 5	131 Bishop St., Montreal	Up. 8156
		424 Queen St., Ottawa, Ont.	
Kurie, Francis D.	Arts 2	Strathcona Hall, Montreal	Up. 1086
		295 Jarvis St., Toronto, Ont.	
Kursner, Louis	Arts 3	45 Maguire St., Montreal	Bel. 9260-J
Kyle, Jean D.	Arts 2	467 Cote St. Antoine Rd., Westmount, Que.	West. 2495
Kyle, Welland H.	Ap. Sci. 3	326 Patricia Ave., Montreal	Wal. 2719
Labelle, A. Achille	Ap. Sci. 1	5 Hutchison St., Montreal	Plat. 3913
		P.O. Box "H", St. Jerome, Que.	
*Labkov, Samuel	Dent. 2	1115a City Hall Ave., Montreal	
Labovitch, William R.	Phar. 2	149 Drolet St., Montreal	
Lack, David	Arts 1	1171 St. Urbain St., Montreal	Bel. 8828-J
Lacoe, Jeremiah R.	Med. 3	1695 Hutchison St., Montreal	At. 3359
Lafleur, Gilbert T.	Law 1	314 Peel St., Montreal	Up. 0437
Laing, Joseph	Ap. Sci. 1	335 Girouard Ave., Montreal	Wal. 4192-W
		178 Jackson St. E., Hamilton, Ont.	
Lajoie, Romeo J.	Med. 3	395 Mance St., Montreal	Plat. 5467
		Edmundston, N.B.	
Land, Harry D.	Med. 4	113 Ste. Famille St., Montreal	
		11 Lingan Rd., Sydney, N.S.	
Land, Jacob	Arts 2	830 Lorne Crescent, Montreal	
		11 Lingan Rd., Sydney, N.S.	
Lande, Lawrence M.	Arts 1	641 Roslyn Ave., Westmount, Que.	West. 7486
Lane, Cecil T.	Ap. Sci. 4	905 St. Urbain St., Montreal	Plat. 4771
Lane, Frederic W.	Arts 2	11 Concord St., Montreal	Plat. 4866
		Missao Evangelica, Capango, Bie, Angola, Portuguese W. Africa.	
Lang, Abraham I.	Arts 1	1647 Mance St., Montreal	Bel. 5486
*Langevin, Joseph J.	Arts 1	2611 Hutchison St., Montreal	
Langley, Alfred J. G.	Arts 3	377 Mountain St., Montreal	Up. 2143
		63 Leigh Rd., Eastleigh, Eng.	
Languedoc, Marie A. G.	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		8 Vimy Apts., Ottawa, Ont.	
Lanthier, John C.	Med. 5	1179 Cote St. Antoine Rd., Montreal	Wal. 1990
Lantz, Joseph P.	Med. 5	308 Prince Arthur St. W., Montreal	Plat. 7472
		Charlottetown, P.E.I.	
Lapin, Benjamin L.	Arts 1	2263 Esplanade Ave., Montreal	Bel. 6802-J
Laplante, J. Paul	Med. 2	2532 Rouen St., Montreal	Clair. 0517
Laporte, Leo C.	Ap. Sci. 2	434 Mance St., Montreal	Plat. 4501
Larkin, Edward A.	Med. 1	78 Durocher St., Montreal	Plat. 2642
		24 Colonial St., St. John's, Nfld.	
Larocque, Fanny E.	Phy. Ed. 1	288 Clifton Ave., Montreal	Wal. 1514
Larose, Paul	Grad. Sch. 3	212 Prudhomme Ave., Montreal	
Latham, Allan B.	Arts 3	267 Regent Ave., Montreal	Wal. 0846
Lavoie, Lionel A.	Com. 1	230 Belfrage Rd., Westmount, Que.	West. 8890
Lavoie, Maurice L.	Arts 1	230 Belfrage Rd., Westmount, Que.	West. 8890
Lawrence, John F.	Ap. Sci. 2	47 Sussex Ave., Montreal	Up. 6046-J
		116 Carling Ave., Ottawa, Ont.	
Lawrence, Leonie J.	Arts 1	163 De l'Epée Ave., Outremont, Que.	At. 2851
Lawson, John W.	Med. 5	776 University St., Montreal	
		Eganville, Ont.	
Layhew, John H.	Grad. Sch.	361 Mance St., Montreal	
Lazarovitz, Sadie	Law 1	245 Esplanade Ave., Montreal	Bel. 3971-F
		127 St. Paul St., Quebec, Que.	
Lazerte, Leonard C.	Med. 5	117 Crescent St., Montreal	Up. 5432
		R.R. No. 2, Iroquois, Ont.	
Leach, Campbell W.	Com. 1	202a Belgrave Ave., Montreal	
Le Baron, Francis G.	Com. 2	2024 Hutchison St., Montreal	At. 2068
		North Hatley, Que.	

*Withdrew early in the session.

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Ledgerwood, George A.	Med. 2	36 Park Ave., Montreal Sandy Lake, Man.	Plat. 0157
Leech, Beverly C.	Med. 5	320 Prince Arthur St. W., Montreal. 2330 Victoria Ave., Regina, Sask.	Plat. 0761
Legate, David M.	Arts 2	815 Shuter St., Montreal 107 Wright St., St. John, N.B.	Plat. 6854
Lehan, Ralph L. M.	Com. 1	4217 Western Ave., Westmount,Que.	West. 3627
*Leitch, Hugh J.	Ap. Sci. 4	476 Strathcona Ave., Westmount, Que.	
Leithman, Ezra	Arts 1	140 Colonial Ave., Montreal	
Leland, Elmer F.	Com. P	Wesleyan College Annex, Montreal. 23 Glazier St., Gardner, Mass.	
Lemay, Charles D.	Com. 2	78 Durocher St., Montreal 231 N. Brodie St., Ft. William, Ont.	Plat. 2642
LeMoine, John G. M.	Arts 1	Apt. 15, "New Sherbrooke," Montreal 183 Grande Allée, Quebec, Que.	Up. 0629
Lenan, S. Maurice A.	Arts P	Diocesan Theo. College, Montreal.. Calcutta, India	
LeNeveu, Arthur P. C.	Grad. Sch. 1	797 University St., Montreal 723 Goulding St., Winnipeg, Man.	
LeSage, Charles E. E.	Med. 1	1115 Mt. Royal Ave. E., Montreal.	Am. 3284
Leslie, Charles W.	Arts 2	110 St. Mark St., Montreal	Up. 0144
Lessard, Jean C.	Com. 1	634 Querbes Ave., Outremont, Que.	At. 1207
Leveque, Andre J.	Ap. Sci. 4	3311 Drolet St., Montreal	Cal. 2879-W
Leveque, Cedric P.	Med. 2	454 Grosvenor Ave., Westmount,Que.	West. 4601
Levikoff, Frances	Arts 3	2400 Hutchison St., Outremont,Que.	At. 1439-W
*Levin, Celia F.	Arts 3	636 Belmont Ave., Westmount,Que.	
Levin, Simon	Med. 2	749 Notre Dame St. W., Montreal.	Main 6581
Levine, Benjamin	Med. 3	1157 Clarke St., Montreal	Bel. 9361-J
Levis, Aaron I.	Arts 2	102 Sherbrooke St. W., Montreal	
Levitt, Harry	Med. 2	1220 St. Urbain St., Montreal	Bel. 8547-J
Levitt, Maxwell	Dent. 4	1218 St. Urbain St., Montreal	Bel. 8547-W
Levitt, Pauline D.	Arts 2	15a Marlowe Ave., Montreal	West.6221-W
Levitt, Rachel	Arts 2	323 Grosvenor Ave., Westmount,Que.	West. 8948
Levy, Gordon W.	Arts 4	1745 Hutchison St., Montreal 5633 Sunset Blvd., Hollywood, Cal.	At. 4356-W
Levy, John	Med. 4	126 Durocher St., Montreal	Plat. 4138
Lévy, Simonne	Arts 2	1102 Racnel St. E., Montreal	
Lewis, Charles	Ap. Sci. 1	531a St. Denis St., Montreal	East 1536-F
Lewis, Charles E.	Com. 2	59 McGill College Ave., Montreal. Truro, N.S.	Plat. 3907
Lewis, David G.	Phar. 1	745 Massachusetts Ave., Boston, Mass.	
Lidsky, Harry	Arts 1	239 Laval Ave., Montreal	
Lidstone, Malcolm	Arts 3	743 University St., Montreal Salmon Cove, C.B., Nfld.	Up. 1475
*Light, Gordon, W. T.	Arts P	293 Mackay St., Montreal	
Lighthall, Lyle C.	Arts 1	1612 St. Urbain St., Montreal Hawkesbury, Ont.	
Lightstone, Louis J.	Dent. 4	54 Colonial Ave., Montreal	Lan. 6520
Lilien, Milton M.	Med. 2	82 Hutchison St., Montreal 37 Hillside Ave., Newark, N.J.	Plat. 6603
Lindsay, Alice E.	Grad. Nurses	43 Belmont Park, Montreal	
Lindsay, John R.	Med. 5	781 Shuter St., Montreal Glasgow, Ont.	Plat. 4059
Lister, Arthur	Ap. Sci. 3	75 Seventh Ave., Ville St. Pierre, Montreal	
Litner, David	Arts 1	692 City Hall Ave., Montreal	Lan. 5025
Litovsky, Abraham	Arts 3	897 City Hall Ave., Montreal	East 0291
Little, John W.	Com. 2	297 Prince Arthur St. W., Montreal. 83 Central Ave., London, Ont.	Plat. 2681
Little, Lawrence P.	Med. 5	851 University St., Montreal 201 McLeod St., Ottawa, Ont.	Plat. 5070
Little, William S.	Med. 2	98 St. Famille St., Montreal Richmond, Ont.	Plat. 0975
Littner, Max	Med. 4	1802 Hutchison St., Montreal	At. 5409
Lloyd, Arthur O.	Arts 4	67 McTavish St., Montreal Prescott, Ont.	Up. 9130

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Lochead, John R.	Med. 3	67 McTavish St., Montreal	Up. 9130
		Sydenham, Ont.	
Lochhead, Stuart G.	Ap. Sci. 1	309 Brock Ave., Montreal West, Que.	Wal. 0498
Logan, David R.	Arts 3	45 Aberdeen Ave., Westmount, Que.	West. 0797
Logan, Robert S., Jr.	Ap. Sci. 4	45 Aberdeen Ave., Westmount, Que.	West. 0797
Longworth, Eileen V.	Arts 4	Royal Victoria College, Montreal	Plat. 0078
		Charlottetown, P.E.I.	
Loomis, Edward B.	Ap. Sci. 2	26 McTavish St., Montreal	Up. 1833
		159 Queen St., Sherbrooke, Que.	
London, Julius E.	Phar. 1	751 De l'Epée Ave., Outremont, Que.	At. 5912-W
Lough, Hubert O.	Med. 3	6595 Monkland Ave., Montreal	Wal. 3084
Lough, Margaret J.	Arts 4	6595 Monkland Ave., Montreal	Wal. 3084
Louis, Florence	Arts 2	214 Villeneuve Ave. W., Montreal	Bel. 9765
Low, S. Ernest	Ap. Sci. 4	591 University St., Montreal	Up. 3521
		20 Pansy Ave., Ottawa, Ont.	
Lowry, Ira K.	Dent. 4	149 Durocher Ave., Montreal	Plat. 5930
		Lennoxville, Que.	
Luke, Josephus C.	Arts 2	41 Brock Ave., Montreal West, Que.	Wal. 0710
Lummis, Oswald J.	Arts P	743 University St., Montreal	Up. 1475
		Valcourt, Que.	
Lunn, Frederick R.	Arts 2	458 Argyle Ave., Westmount, Que.	West. 1630
Lusby, Eric B.	Ap. Sci. 4	202 Milton St., Montreal	Plat. 0474
		215 Royal Ave., New Westminster, B.C.	
Luxton, Lloyd C.	Ap. Sci. 4	164 Mansfield St., Montreal	Up. 3070
		118 Salisbury Ave., Sault Ste. Marie, Ont.	
Lyman, Beatrice M. T.	Arts 2	83 Redpath Crescent, Montreal	Up. 1802
Lynch-Staunton, Victor M.	Law 2	825 University St., Montreal	Plat. 3464
		Mountain Brow, Hamilton, Ont.	
Lynde, Carleton J.	Ap. Sci. 2	810 University St., Montreal	Up. 9109
		40 St. Nicholas Place, New York, N.Y.	
Lynn, Leo J.	Med. 5	750 St. Urbain St., Montreal	Plat. 4693
		16 Lambert Ave., Chelsea, Mass.	
Lyons, Alfred L.	Med. 2	685 University St., Montreal	Up. 0681
		1051 Boston Road, New York, N.Y.	
Lyons, Avery C.	Arts 1	52 McGill College Ave., Montreal	Up. 1416
		26 Dufferin Ave., Brantford, Ont.	
Lyons, Clarence O.	Phar. 2	271 Sherbrooke St. W., Montreal	Plat. 2088
Lyons, Ivan H.	Phar.	271 Sherbrooke St. W., Montreal	Plat. 2088
Lyons, Walter	Ap. Sci. 1	685 University St., Montreal	Up. 0681
		1051 Boston Rd., New York, N.Y.	
Lyster, Norman C.	Arts 2	605 Dorchester St. W., Montreal	
		Kennedy, Sask.	
Lytle, Lillian C.	Arts 1	153 St. Luke St., Montreal	Up. 0667
		Baltimore, Md.	
Mabon, Gwendolen E.	Arts 2	409 Burnside Place, Montreal	Up. 1007
McArthur, Isobel R.	Soc. Workers 1		Wal. 0132
		Delson Jct., Que.	
McArthur, James E.	Med. 1	29 Bassett St., Montreal	Plat. 2851
		Upper Grand Mira, C.B., N.S.	
Macaulay, Archibald F.	Med. 4	103 St. Famille St., Montreal	Plat. 6518
		1237 13th Ave. W., Calgary, Alta.	
Macaulay, Malcolm J.	Med. 3	308 Prince Artnur St. W., Montreal.	
		802 George St., Sydney, N.S.	
McAvity, Thomas A.	Com. 1	304 Prince Arthur St.W., Montreal	Plat. 3624
		196 King St. E., St. John, N.B.	
McCabe, Claude E A.	Dent. 2	140 St. Catherine St. W., Montreal.	
		P.O. Box 73, Valleyfield, Que.	
McCallum, Duncan J.	Dent. 2	32a Rozel St., Verdun, Que.	York 6415-W
		Danville, Que.	
MacCallum, Thurlow B.	Dent. 4	149 Durocher St., Montreal	Plat. 5930
		Poltimore, Que.	
MacCarthy, Henry B.	Ap. Sci. 1	823 University St., Montreal	Plat. 0354
		110 Lisgar St., Ottawa, Ont.	
McCauley, Madeline M.	Arts 1	4837 Western Ave., Westmount	West. 1913
McClung, Joseph E.	Ap. Sci. 3	3584 Park Ave., Montreal	Plat. 5685
		Watrous, Sask.	

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
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*McClure, James C.	Med. 5	468 Sherbrooke St. W., Montreal... Cowansville, Que.	
McClure, Lindley W.	Ap. Sci. 2	1401 Bordeaux St., Montreal	
McCombe, John G.	Ap. Sci. 2	Dorval, Que.	Lachine 22
McCombe, Reginald M.	Ap. Sci. 1	4294 Dorchester St. W., Westmount, Que.	
McCombe, Robert J.	Ap. Sci. 2	Dorval, Que.	Lachine 22
McConnell, John M.	Com. 1	360 Elm Ave., Westmount, Que.	West. 5410
McConnell, Wilson G.	Arts 1	140 St. Joseph St., Dorval, Que.	Wal. 2752
McConvey, William A., Jr	Med. 1	468 Sherbrooke St. W., Montreal... 141 Livingston St., Buffalo, N.Y.	Up. 7557
McCormack, Colin W.	Med. 4	839 Lorne Crescent, Montreal	Plat. 6010
		Renfrew, Ont.	
McCormick, Matthew	Com. 1	5376 Park Ave., Montreal	Plat. 0383
McCormick, Thomas B.	Arts 2	377 Mountain St., Montreal	Up. 2143
		651 Talbot St., London, Ont.	
McCready, Harriet H.	Phy. Ed. 2	724 University St., Montreal	Up. 3369
		173 Douglas Ave., St. John, N.B.	
McCrimmon, Frederick G.	Arts 2	67 McTavish St., Montreal	Up. 9130
		Huntingdon, Que.	
McCuaig, Duncan R.	Med. 4	810 University St., Montreal	Up. 9109
		Bainsville, Ont.	
McCuaig, E. Barton	Arts 3	810 University St., Montreal	Up. 9109
		Bainsville, Ont.	
McCulloch, Frank D.	Med. 5	Strathcona Hall, Montreal	Up. 1086
		76 Hochelaga St. E., Moose Jaw, Sask.	
McCurdy, Lyall R.	Grad. Sch. 1	707 Shuter St., Montreal	
		New Glasgow, N.S.	
MacDermot, Pembroke N.	Med. 3	90 St. Matthew St., Montreal	Up. 5543
McDiarmid, Donald C.	Ap. Sci. 3	308 Prince Arthur St. W., Montreal.	Plat. 7472
		Carleton Place, Ont.	
Macdiarmid, Jean C.	Arts 1	351d Selby St., Westmount, Que.	West. 2437-W
Macdiarmid, William J. G.	Arts P	351d Selby St., Westmount, Que.	West.2437-W
Macdiarmid, Winnifred R.	Phy. Ed. 1	724 University St., Montreal	Up. 3369
		586 Driveway Ave., Ottawa, Ont.	
McDonald, Alfred P.	Med. 1	260 Guy St., Montreal	
		New Amsterdam, B.G.	
Macdonald, Anita C.	Med. 4	70 McTavish St., Montreal	Up. 9359-W
		201 Agnes St., New Westminster, B.C.	
MacDonald, Duncan A.	Com. 2	65 St. Mark St., Montreal	Up. 3055
MacDonald, George W.	Arts 4	84 Victoria St., Montreal	Up. 7294
		Campbellton, N.B.	
MacDonald, Howard	Arts 1	84 Victoria St., Montreal	Up. 7294
		Campbellton, N.B.	
McDonald, Howard A.	Med. 2	320 Prince Arthur St. W., Montreal.	Plat. 0761
		Netherhill, Sask.	
McDonald, James A. E.	Com. 2	855 Oxenden Ave., Montreal	Plat. 3398
		Valleyfield, Que.	
MacDonald, James L.	Arts 2	Strathcona Hall, Montreal	
		P.O. Box 283, Sydney, N.S.	
MacDonald, John K.	Med. 4	756 University St., Montreal	Up. 0290
		9817 107th St., Edmonton, Alta.	
Macdonald, Neil D.	Arts 1	326 St. Joseph St., Lachine, Que.	Lachine 243
MacDonald, S. Arthur	Arts 3	67 McTavish St., Montreal	Up. 9130
		45 Fitzroy St., Charlottetown, P.E.I.	
McDonald, W. Oswald	Med. 2	2297 Waverley St., Montreal	Bel. 7342-W
		216 King St. W., St. John, N.B.	
McDonell, Eugene D.	Med. 4	800 Shuter St., Montreal	Plat. 4657
		Dalhousie Station, Que.	
MacDonell, Mary M.	Arts 1	460 Durocher St., Montreal	At. 1035
MacDougall, Coll. L.	Ap. Sci. 1	318 Wilson Ave., Montreal	Wal. 2633
		39 Brompton Rd.,, Knightsbridge, London, Eng.	
McDougall, Stewart R.	Grad. Sch. 2	756 University St., Montreal	
		337 Keay St., New Westminster, B.C.	
Macduff, Albert S.	Ap. Sci. 4	322 Selby St., Westmount, Que.	West. 6493

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McEwan, Daniel W.	Dent. 1	3584 Park Ave., Montreal	
		1932 McIntyre St., Regina, Sask.	
Macfarlane, David B.	Arts 1	Wesleyan College, Montreal	Up. 0290
		Box 329, Huntingdon, Que.	
McFarlane, Duncan H.	Arts P	756 University St., Montreal	Up. 0290
		Nokomis, Sask.	
McGerrigle, Andrew James	Arts 1	756 University St., Montreal	Up. 0290
		Ormstown, Que.	
McGerrigle, Harold W.	Arts 3	67 McTavish St., Montreal	Up. 9130
		Ormstown, Que.	
McGoun, David D.	Arts 2	162 Drummond St., Montreal	Up. 7419
MacGregor, Archibald D.	Dent. 4	756 University St., Montreal	Up. 0290
		10650 78th Ave., Edmonton, Alta.	
McGregor, Frank R.	Med. 1	320 Prince Arthur St. W., Montreal.	Plat. 0761
		1 Belmont House, Victoria, B.C.	
MacGregor, Roderick G.	Dent. 3	158 Metcalfe St., Montreal	Up. 7541
		New Glasgow, N.S.	
McGuire, John A.	Med. 5	24 Durocher St., Montreal	Plat. 0610
		Cornwall, Ont.	
McInerney, James P.	Med. 1	31 Lorne Ave., Montreal	Plat. 0938
		88 Orange St., St. John, N.B.	
*McIntosh, Leslie M.	Arts P	438 Victoria Ave., Westmount,Que..	
		Metis Beach, Que.	
MacIntyre, Donald C.	Ap. Sci. 2	67 McTavish St., Montreal	Up. 9130
		Windsor Mills, Que.	
McKay, Chipman O.	Arts 2	308 Prince Arthur St. W., Montreal.	Plat. 7472
		28 Wright St., St. John, N.B.	
McKay, Douglas A.	Com. 3	544 Sherbrooke St. W., Montreal	Up. 9692
		679 Ouellette Ave., Windsor, Ont.	
MacKay, Robert deW.	Arts 1	355 Mountain St., Montreal	Up. 8937
McKeen, Margaret Viola	Arts 2	3498 Park Ave., Montreal	Plat. 6538
Mackell, Dorothy I.	Phy. Ed. 1	724 University St., Montreal	Up. 3369
		231 Waverly St., Ottawa, Ont.	
McKelvey, Mosley A.	Arts 1	151 Brock Ave. S., Montreal West, Que.	Wal. 2863
McKenna, Leo B.	Med. 3	202 Mance St., Montreal	Plat. 3219
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McKenna, Philip D.	Med. 3	677 Shuter St., Montreal	Plat. 5521
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MacKenzie, Ian.	Med. 3	464 Sherbrooke St. W., Montreal	Up. 6220
		Campbellton, N.B.	
MacKenzie, John C.	Med. 2	320 Prince Arthur St. W., Montreal.	Plat. 0761
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		796 Victoria Rd., Sydney, N.S.	
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		Russell, Ont.	
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MacLean, Kenneth S.	Med. 4	464 Sherbrooke St. W., Montreal North Wiltshire, P.E.I.	Up. 6220
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MacLeod, John P.	Com. 3	2221 Hutchison St., Montreal Gould Station, Que.	At. 6107-W
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McNaughton, Francis L.	Arts 2	4565 Sherbrooke St. W., Westmount, Que.	West. 1408
McNaughton, Malcolm E.	Arts 3	4565 Sherbrooke St. W., Westmount, Que.	West. 1408
McNaughton, Muriel C.	Arts 4	4565 Sherbrooke St. W., Westmount, Que.	West. 1408
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		Keady, Ont.	
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Mahoney, Hugh R.	Ap. Sci. 3	71a St. Famille St., Montreal	Plat. 2014
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Malamud, Ida	Arts P	1505 Clarke St., Montreal	
Malamud, Nathan	Arts P	1505 Clarke St., Montreal	
Malinsky, Maurice L.	Arts 1	480 Clarke St., Montreal	Plat. 2185
Malloy, John D.	Med. 2	167 Hutchison St., Montreal	Plat. 2396
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Marcovitz, Jeannette E.	Arts 1	715 St. Urbain St., Montreal	Plat. 4216
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Marks, Dorothy	Arts P	78 St. Famille St., Montreal	Plat. 1996
Marks, Lillian F.	Arts 2	78 St. Famille St., Montreal	Plat. 1996
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Martin, Walter H.	Ap. Sci. 2	323 Mackay St., Montreal	Up. 3382-W
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Matthams, Philip	Arts 1	58 McTavish St., Montreal 46 Wantz Rd., Maldon, Essex, Eng.	Up. 2392
Matthews, Marjorie C.	Arts 2	306 Marlowe Ave., Montreal	Wal. 2333-W
Maughan, John W.	Com. 1	596 Grosvenor Ave., Montreal	West. 5952
Maxwell, Herries S.	Ap. Sci. 2	312 Peel St., Montreal	Up. 4703
Mazur, Sydney S.	Phar.	1881 St. Urbain St., Montreal	Bel. 3991
Meahan, Thomas F.	Med. 4	29 Basset St., Montreal West Bathurst, N.B.	Plat. 2851
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		Box 21, Richelieu, Que.	Cham. 122-2
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Mendelovitch, Moses	Arts 2	1074 St. Urbain St., Montreal	Bel. 6751-W
Mendels, Morton	Com. 1	536 Notre Dame St. W., Montreal	Main 0453
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Menzies, Gordon E.	Arts 1	49, Strathcona Hall, Montreal 1 Elmwood Ave., Providence, R.I.	Up. 1086
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Mettarlin, Aaron H.	Law 2	20 St. Catherine Rd., Outremont, Que.	At. 6258-W
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Michael, Paul	Med. 2	377 Mountain St., Montreal 1479 E. 14th St., San Leandro, Cal.	Up. 2143
Michener, Robert R.	Med. 3	10 Drummond St., Montreal 205 N. Washington St., Wichita, Kansas, U.S.A.	Up. 8023
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Mickles, Lovell G., Jr.	Com. 3	696 Pine Ave. W., Montreal	Up. 3013
Middleton, Lyall A.	Med. 5	756 University St., Montreal Lachute Mills, Que.	Up. 0290
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Milley, Samuel S.	Arts P	756 University St., Montreal	Up. 0290
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Richman, Harry	Med. 1	80 Victoria St., Montreal 51 E. 107th St., New York, N.Y.	Up. 7819-M
Richstone, Gerald	Phar. 1	1320 St. Lawrence Blvd., Montreal	Bel. 1820
Riley, William C.	Com. 1	297 Prince Arthur St. W., Montreal 90 East Gate, Winnipeg, Man.	Plat. 2681
Rinfret, Guy R.	Ap. Sci. 3	173 Mansfield St., Montreal 27 Hemlock Ave., Shawinigan Falls, Que.	Up. 0715
Ring, Chester Allen	Com. 2	591 University St., Montreal 113 Somerset St., Bangor, Me.	Up. 3521
Ring, Hubert E.	Com. 1	591 University St., Montreal 113 Somerset St., Bangor, Me.	Up. 3521
Riordon, Charles H.	Ap. Sci. 3	374 Cote des Neiges Rd., Montreal	West. 4410
Riordon, John E. B.	Ap. Sci. 1	374 Cote des Neiges Rd., Montreal	West. 4410
Risk, Gladys	Grad. Nurses, 1	Queen's Hotel, Montreal 20 Woodland Terrace, Plymouth, S. Devon, Eng.	
Riva, Ronald H.	Ap. Sci. 4	237 Sherbrooke St. W., Montreal	Plat. 2796
Riven, Samuel	Med. 5	1112 St. Urbain St., Montreal	Bel. 2498-W
Roach, Robert D.	Med. 5	313 Prince Arthur St. W., Montreal Tatamagouche, N.S.	Plat. 6663
Roberge, Antoine	Phar. 1	1231 St. Lawrence Blvd., Montreal	Bel. 1838

*Withdrew early in the session.

Where two addresses are given, the second is the home address.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Roberts, Dorothy	Arts 2	149 Drummond St., Montreal	Up. 0170
Roberts, Dorothy M	Arts 2	443 Lansdowne Ave., Westmount, Que.	West. 1759
		Granby, Que.	
*Roberts, Percie	Med. 4	Strathcona Hall, Montreal	
		St. John's, Nfld.	
Roberts, Margaret P	Arts 4	149 Drummond St., Montreal	Up. 0170
Robertson, Basil D	Med. 3	1002 St. Catherine St. W., Montreal	Up. 1349
		155 Queen St., St. John, N.B.	
Robertson, Bert H	Dent. 4	756 University St., Montreal	Up. 0290
		Almonte, Ont.	
Robertson, Carol E	Grad. Sch. 1	143 Bayle St., Montreal	
Robertson, Hugh D	Arch. 5	26 McTavish St., Montreal	Up. 8633
		46 Herkimer St., Hamilton, Ont.	
Robertson, James R	Med. 5	57 Bishop St., Montreal	Up. 5944-W
		74 Victoria Rd., Halifax, N.S.	
Robertson, John M. H	Com. P	424 Notre Dame de Grace Ave., Montreal	
Robertson, Laura S	Arts 2	721 Pine Ave. W., Montreal	Up. 5401-M
Robertson, Margaret	Phy. Ed. 2	724 University St., Montreal	Up. 3369
		174 Main St., Hull, Que.	
Robertson, Margaret J	Phy. Ed. 1	724 University St., Montreal	Up. 3369
		155 Queen St., St. John, N.B.	
Robertson, Melville S	Arts 2	461 Roslyn Ave., Westmount, Que.	
Robertson, Violet	Arts P	15 Lorne Ave., Montreal	Plat. 1555
Robinson, Dorothy C	Arts 2	449 University St., Montreal	Up. 4335
Robinson, Stewart A	Dent. 2	629 Belgium Ave., Westmount, Que.	West. 5374
Robson, Gertrude F	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		321 Dromore Ave., Winnipeg, Man.	
Rockwell, William H	Ap. Sci. 4	196 Milton St., Montreal	Plat. 3407
		River Hebert, Cum. Co., N.S.	
Rodger, W Sherman	Med. 1 & Arts 4	316 Grosvenor Ave., Westmount, Que.	West 2343
		Cowansville, Que.	
Roe, Gordon O	Ap. Sci. 1	Ste. Anne de Bellevue, Que.	Ste. An. 158
Rohrlick, Louis H	Law 3	42 Laurier Ave. W., Montreal	Bel. 6449-W
Rokita, Eli	Arts 1	26A Duluth Ave. W., Montreal	Bel. 6731-M
Rollit, Charles C	Ap. Sci. 1	4435 Sherbrooke St. W., Westmount, Que.	
		East Farnham, Que.	
Roncarelli, Francis A	Com. 1	67 Osborne St., Montreal	Up. 5007
Roome, Frederick C. E	Ap. Sci. 3	71 Drummond St., Montreal	Up. 2809
		Quamichan Lake, Duncan's, B.C.	
Rosen, Ernest	Phar. 2	861 City Hall Ave., Montreal	Plat. 4751
Rosenbaum, Saul B	Med. 5	126 Inspector St., Montreal	Main 5077
Rosenberg, Arthur F	Dent. 3	526 Marcil Ave., Montreal	Wal. 3972-W
Rosenbloom, Lewis I	Com. 2	745 Shuter St., Montreal	Plat. 3077
		77 Quebec St., Sherbrooke, Que.	
Rosenhek, Clarence C	Arts 1	1869 Esplanade Ave., Montreal	
		Campbellton, N.B.	
Rosenthal, Arthur A	Med. 3	685 University St., Montreal	Up. 0681
		Bridgeport, Conn.	
Ross, Alan S	Med. 3	414 Bourgeois St., Montreal	York 1515
Ross, Allan E	Arts P	31 Bruce Ave., Westmount, Que.	
Ross, Dorothy V	Grad. Sch. & Arts P	109 Crescent St., Montreal	
Ross, Douglas A	Arts 1	367 Metcalfe Ave., Westmount, Que.	
Ross, Francis G	Arts 4	127 Drummond St., Montreal	Up. 6500
		1201 Georgia W., Vancouver, B.C.	
Ross, Henry S	Ap. Sci. 1	414 Bourgeois St., Montreal	York 1515
Ross, Hugh G	Ap. Sci. 4	Strathcona Hall, Montreal	Up. 1086
		15 Linden Terrace, Ottawa, Ont.	
Ross, John A	Com. 2	810 University St., Montreal	Up. 9109
		Ship Canal, Sault Ste. Marie, Ont.	
Ross, Malcolm McG	Med. 1 & Arts 4	464 Sherbrooke St. W., Montreal	Up. 6220
		Abbotsford, B.C.	
Ross, Margaret A	Arts P	109 Crescent St., Montreal	
Ross, Marion D	Arts 1	414 Bourgeois St., Montreal	York 1515
Ross, Mary C. M	Arts 2	140 Clanranald Ave., Montreal	Wal. 3175-J

*Withdrew early in the session.

Where two addresses are given, the second is the home address.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Ross, Stewart H.	Ap. Sci. 4.	58 McTavish St., Montreal.	Up. 2392
		Stanstead, Que.	
Ross, Sophia M.	Phy. Ed. 1.	44A Lorne Ave., Montreal.	Plat. 5217
		530 7th St., Lethbridge, Alta.	
Ross, William B.	Ap. Sci. 2.	367 Metcalfe Ave., Westmount, Que.	West. 0678
Ross, William B.	Ap. Sci. 3.	308 Prince Arthur St. W., Montreal.	Plat. 7472
		Coniston, Ont.	
Ross, William T. D.	Ap. Sci. 3.	Strathcona Hall, Montreal.	Up. 1086
		Pictou, N.S.	
Rotgaus, Jacob.	Arts 2.	1179 Clarke St., Montreal.	Bel. 0914-J.
		42 Albert St. S., Kitchener, Ont.	
Rothchild, Dan.	Com. P.	17 Pagnuelo Ave., Outremont, Que.	
Rothwell, Aubrey L.	Com. 1.	120 Abbott St., Westmount, Que.	
		Cobourg, Ont.	
Rothwell, J. Cecil.	Med. 4.	90 St. Famille St., Montreal.	Plat. 5671
		Lanark, Ont.	
Routh, Marguerite E.	Phy. Ed. 1.	368 Kensington Ave., Westmount, Que.	West. 4989
Row, William S.	Ap. Sci. 2.	540 Pine Ave. W., Montreal.	Up. 2409
		Currie, Ont.	
Rowat, Harland C.	Law 1.	743 University St., Montreal.	Up. 1475
		Athelstan, Que.	
Roy, Leo.	Arts. 1.	376 Metcalfe Ave., Westmount, Que	
Ruark, Alice.	Arts 1.	1105 Bernard Ave., Outremont, Que.	At. 4835
Rubin, Anne G.	Arts P.	551 Durocher Ave., Montreal.	
Rubin, Isadore.	Arts 1.	1483 Cadieux St., Montreal.	Bel. 0324
Rubin, Nathan W.	Med. 3.	301 Prince Arthur St. W., Montreal.	Plat. 0491
		182 Prince Edward St., St. John, N.B.	
Rubin, Saul.	Med. 5.	2574 Hutchison St., Montreal.	At. 0564-W.
		Kirkland, Washington, U.S.A.	
Rubinstein, Joseph.	Arts 3.	1305 City Hall Ave., Montreal.	
Ruby, Ethyl.	Soc. Workers.	1685 Hutchison St., Montreal.	At. 1666
Rudman, Allan.	Phar. 3.	1443 Alexandra Ave., Montreal.	
Rudy, Riva.	Arts 2.	982 St. Lawrence Blvd., Montreal.	Plat. 5948
Runnells, Lillian K.	Arts 1.	48 Arlington Ave., Westmount, Que.	West. 0738
Rusofsky, Harry.	Med. 4.	604A Henri Julien Ave., Montreal.	
Russell, James F.	Com. 1.	851 University St., Montreal.	Plat. 5070
		58 Park Ave., Ottawa, Ont.	
Russell, James V.	Arts 2.	304 Prince Arthur St. W., Montreal.	Plat. 3624
		125 Douglas Ave., St. John, N.B.	
Rutherford, Elizabeth M.	Phy. Ed. 2.	61 Rosemount Ave., Westmount, Que.	West. 1883
Rutherford, James A.	Arts 1.	49 Aberdeen Ave., Westmount, Que.	West. 0229
Rutherford, James F.	Ap. Sci. 3.	26 McTavish St., Montreal.	Up. 8633
		Hampstead, Que.	
Ryan, Charles P.	Com. 2.	738 Sherbrooke St. W., Montreal.	Up. 6252
		514 Clay St., Watertown, N.Y.	
Ryan, Max.	Med. 3.	59 McGill Coll. Ave., Montreal.	Up. 4002-W.
		Kansas City, Mo.	
Rybak, Francis A.	Med. 4.	620 University St., Montreal.	Up. 4520
		Winnipeg, Man.	
Saibil, David.	Arts 2.	2630A St. Urbain St., Montreal.	Cal. 4328
Saibil, Moses.	Med. 1.	2630A St. Urbain St., Montreal.	Cal. 4328
Salmon, Udall J.	Med. 1.	1754 Hutchison St., Montreal.	At. 1929-W.
		1468 Seabury Place, New York, N.Y.	
Salomon, Florence F.	Arts P.	179 Esplanade Ave., Montreal.	Bel. 8550
Salomon, Isidore J.	Com. 1.	179 Esplanade Ave., Montreal.	Bel. 8550
Salter, Frederick C.	Ap. Sci. 3.	51 Vendome Ave., Montreal.	Wal. 4979
Salter, Reginald A.	Med. 4.	776 University St., Montreal.	Up. 9173
		Bridgetown, N.S.	
Sammett, Jeannette A.	Arts 4 and Med. 1.	699 Girouard Ave., Montreal.	Wal. 3718-J.
Sampson, Ronald McN.	Ap. Sci. 2.	125 Hutchison St., Montreal.	Plat. 0794
		North Hatley, Que.	
Samuels, Bernard B.	Arts 2.	1320 Greene Ave., Westmount, Que.	West. 6306
Sangster, Muriel I.	Arts 4.	Royal Vic. College, Montreal.	Plat. 0078
		100 Drummond St., Sherbrooke, Que.	
Saunders, Adele L.	Arts 3.	Royal Vic. College, Montreal.	Plat. 0078
		169 Fifth Ave., Ottawa, Ont.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Saunders, Leila A.	Arts 2	Royal Vic. College, Montreal	Plat. 0078
		Summerside, P.E.I.	
Savage, Mae L.	Arts 2	154 Ballantyne Ave. N., Montreal West, Que.	Wal. 2301
Savoie, Paul	Ap. Sci. 2	238 St. Denis St., Montreal	East 6162
Scanlan, Jeremiah J. R.	Ap. Sci. 3	688 Charlevoix St., Montreal	Vict. 0376
Schachter, Moe M.	Phar.	20 Fairmount Ave. W., Montreal	Bel. 6289-W.
Schaefer, Moe Montefiore	Arts 1	255 Esplanade Ave., Montreal	
Schain, Frank S.	Phar. 1.	1049 St. Dominique St., Montreal	
Scharf, Joss E.	Arts 3.	67 McTavish St., Montreal	Up. 9130
		Edwards, Ont.	
Scharf, Robbie E.	Arts 1.	67 McTavish St., Montreal	Up. 9130
		R.R. No. 1, Edwards, Ont.	
Schatz, Bernard	Arts P.	2673 Waverley St., Montreal	
Scheffer, Isidor H.	Med. 5.	1758 Mance St., Montreal	Bel. 9096-W.
Scheffer, William	Dent. 3.	1758 Mance St., Montreal	Bel. 9096-W.
Scherzer, Alfred L.	Dent. 2.	1560 Clarke St., Montreal	Bel. 5919-W.
Schleien, Donna S.	Arts 2.	2844 Christophe Colombe St., Montreal	Cal. 5765
Schleifer, Rupert S.	Arts 1.	348 Sherbrooke St. W., Montreal	Up. 1086
		Wood Hall Estate, Jamaica, B.W.I.	
Schleifer, Sol	Arts 4.	741 Querbes Ave., Outremont, Que.	At. 4937
Schlesinger, Israel A.	Med. 2.	790 Hall Ave., Montreal	East 8498-J.
*Schneiderman, Sam.	Phar. 1.	1335 St. Lawrence Blvd., Montreal	
Schofield, Frederick C.	Com. 3.	811 University St., Montreal	Plat. 6979
		48 Carleton St., St. John, N.B.	
Schottenfeld, Louis E.	Med. 1.	1814 St. Urbain St., Montreal	Bel. 6205-F.
		329 Knickerbocker Ave., Brooklyn, N.Y.	
Schwartz, Abe	Arts 1.	2078 Waverley St., Montreal	Bel. 9844-J.
		62 Des Prairies St., Quebec, Que.	
Schwartz, Beckie	Soc. Workers 1.	2078 Waverley St., Montreal	Bel. 9844-J.
		62 Des Prairies St., Quebec, Que.	
*Schwartz, Hyman	Dent. 4.	624 Notre Dame St. W., Montreal	
Schwartz, Louis	Arts 2.	282 St. Antoine St., Montreal	Up. 6485-W.
Schwartz, Max	Arts 1.	529 Durocher St., Montreal, Que.	
Schwartz, Max A.	Arts 1.	405 Esplanade Ave., Montreal	
Schwartz, Max L.	Arts 3.	1071A St. Urbain St., Montreal	Bel. 3127-M.
Schwartz, Sylvia	Arts 4.	2078 Waverley St., Montreal	Bel. 9844-J.
		62 Des Prairies St., Quebec, Que.	
Schwartz, Tressa C.	Arts 1.	79 Laurier Ave. W., Montreal	Bel. 1643-F.
Schwartzman, Jacob C.	Med. 3.	655 St. Urbain St., Montreal	Plat. 6627
Schwisberg, Cyril E.	Arts 2.	181 Esplanade Ave., Montreal	Bel. 2616
Schwisberg, Samuel E.	Law 2.	181 Esplanade Ave., Montreal	Bel. 2616
Scobel, Olive A.	Arts 1.	635 University St., Montreal	Plat. 2160
Scofield, Clifford G.	Ap. Sci. 2.	329 Rosyln Ave., Westmount, Que.	West. 2055
Scott, David J. F.	Arts 1.	67 McTavish St., Montreal	Up. 9130
		Grandview, Washington, U.S.A.	
Scott, Francis R.	Law 1.	90 St. Matthew St., Montreal	Up. 5543
		St. Matthew's Rectory, Quebec, Que.	
Scott, Gordon H.	Med. 3.	571 University St., Montreal	Up. 4597-J
		6037 Fraser Ave., Vancouver, B.C.	
Scott, John	Arts 2.	251 Bishop St., Montreal	Up. 3489-W
		237 9½ St. N.W., Calgary, Alta.	
Scott, Robert M.	Med. 4.	856 Lorne Crescent, Montreal	Up. 2210
		Wallaceburg, Ont.	
Scriver, Isabelle S.	Arts 2.	4425 St. Catherine St., Westmount, Que.	West. 0991
Seale, Francis L.	Com. 2.	78 Durocher St., Montreal	Plat. 2642
		154 Maple Ave., Quebec, Que.	
Seale, Milton	Ap. Sci. 4.	818 Atwater Ave., Westmount, Que.	West. 3693-W
Seaton, Charles H.	Com. 3.	152 Metcalfe St., Montreal	Up. 5517
Secord, Frances R.	Arts 3.	4912 Sherbrooke St. W., Westmount, Que.	West. 5925
Segal, Bella M. D.	Arts 1.	1650 Esplanade Ave., Montreal	Bel. 2509-M
Segal, Nessie	Arts P.	1650 Esplanade Ave., Montreal	Bel. 2509-M
Sellars, Fred M.	Arts P.	Wesleyan College, Montreal	Up. 0290
		Waitsfield, Vt.	
Seller, Charles R.	Dent. 2.	43 De Razilly St., Montreal	York 1364-W

*Withdrew early in the session.

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Seller, J. Ethel	Grad. Nurses	267 Mountain St., Montreal Henrysburg, Que.	
Senecal, Joseph G.	Med. 5	5956 Park Ave., Montreal	At. 3823-W
Senkeivitz, Philip	Arts 2	2520 Bordeaux St., Montreal	
Senzilet, Samuel	Arts 1	25 Grubert St., Montreal	East 0254
Sessenwein, Laurence	Law 1	2 Amesbury Ave., Montreal	Up. 5750
Severs, George	Com. 1	469 Strathcona Ave., Westmount, Que.	West. 3990
Seymour, James W.	Com. 1	1009 Bernard Ave., Montreal	At. 4190-J
Shackell, Ralph Abner	Com. 3	38 Hutchison St., Montreal	Plat. 4575
Shaffer, Henry	Med. 2	66 St. Famille St., Montreal	Plat. 4614
Shaffer, Louis	Arts 2	66 St. Famille St., Montreal	Plat. 4614
*Shane, Harry	Law 1	732 Durocher St., Outremont, Que.	
Shanks, W. Cameron	Arts 1	67 McTavish St., Montreal Huntingdon, Que.	Up. 9130
Shapiro, Lionel	Arts 1	1944 Mance St., Montreal	Bel. 3378-W
Shapiro, Louis	Arts 1	3009 Papineau Ave., Montreal	
Shapiro, Sadie	Arts P	17 Bellingham Rd., Montreal	At. 0031
Sharp, William O.	Com. 2	341 Cote St. Antoine Road, Westmount, Que.	West. 2973
Sharpe, James MacD.	Ap. Sci. 4	126 Lewis Ave., Westmount, Que.	West. 3034
*Sharpe, William D.	Ap. Sci. 1	133 London St., Sherbrooke, Que.	
Sharples, William H.	Ap. Sci. 4	756 Sherbrooke St. W., Montreal Quebec City, Que.	Up. 4799
Shatford, Reginald A.	Ap. Sci. 4	697 St. Catherine St. W., Montreal Vancouver, B.C.	Plat. 0099
Shaw, Elizabeth M.	Arts 1	Ste. Anne de Bellevue, Que.	
Shaw, Gerald E.	Grad. Sch.	Strathcona Hall, Montreal 218 Cameron Ave., Windsor, Ont.	
Shaw, Nathaniel L.	Med. 1	794 Shuter St., Montreal Port Arthur, Ont.	Plat. 6452
Shaw, Robert B.	Med. 3	800 Shuter St., Montreal 1275 Barclay St., Vancouver, B.C.	Plat. 4657
Shecter, Joseph	Arts 1	96 St. Louis St., Lachine, Que.	Lachine 286
Shenkman, Sadie M.	Arts 1	17 Pagnuelo Ave., Outremont, Que. 281 Laurier Ave. E., Ottawa, Ont.	At. 0256
Shepherd, John	Arts 2	342 Magdalen St., Montreal	York 4389-W
Shepherd, William F.	Arts P	157 Edgehill Road, Westmount, Que.	West. 2384
Sherwin, Lewis	Phar. 3	2430 Esplanade Ave., Montreal	Bel. 6360-W
Shippam, Frederick	Med. 4	Wesleyan College, Montreal Macoun, Sask.	Up. 0290
Shister, Hyman	Arts 1	1045 St. Dominique St., Montreal	
Short, Edwin J.	Med. 2	770 University St., Montreal Hants Harbour, Nfld.	Up. 5981
Shortall, Wilbert J.	Ap. Sci. 4	704 Cote St. Antoine Road, Westmount, Que.	West. 3710
Shotton, John Allison	Med. 2	348 Sherbrooke St. W., Montreal Kamloops, B.C.	Up. 1086
Shulman, Abraham	Arts 2	473 Henri Julien St., Montreal	
Sichel, Ferdinand	Arts 1	1921 Esplanade Ave., Montreal	Bel. 8699-W
Siegel, Benjamin	Arts 1	79 Casgrain St., Montreal	
Silk, Claude W.	Med. 4	28A St. Famille St., Montreal	Plat. 1484
Silsby, Charles S.	Dent. 3	162A Mance St., Montreal Aurora, Me., U.S.A.	Plat. 5403
Silsby, Samuel S.	Med. 4	468 Sherbrooke St. W., Montreal Aurora, Me., U.S.A.	Up. 7557
Silver, Alice	Arts 4	385 Beaconsfield Ave., Montreal	Wal. 2931
Silver, Lydia R.	Arts 3	459 Mt. Pleasant Ave., Westmount, Que.	West. 4388
Silver, Ralph C.	Ap. Sci. 2	743 University St., Montreal Danville, Que.	Up. 1475
Silverman, Beatrice I.	Arts 3	753A City Hall Ave., Montreal	East 0095
Silverman, David	Com. 3	525 St. Urbain St., Montreal	Plat. 2639
Silverman, Eddie	Arts 1	1769 St. Lawrence Blvd., Montreal	Bel. 6967-J
Silverman, Gertrude	Arts 4 & Med. 1	1769 St. Lawrence Blvd., Montreal	Bel. 6967-J
Silverman, Jacob	Arts 2	993 St. Urbain St., Montreal	Plat. 0361

*Withdrew early in the session.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address.			
Silverman, Judah M	Com. 1	155 St. Joseph Blvd.W., Montreal	Bel. 0667-W
*Silverman, Lily	Arts P	1769 St. Lawrence Blvd., Montreal	Bel. 6967-J
Silverstein, Irving H	Arts 2	610 Union Ave., Montreal 117 McKibben St., Brooklyn, N.Y.	
Silverstone, Oscar	Arts 2	941 St. Catherine St. W., Montreal	Up. 3482
Simon, Martin J	Com. 1	Academy Apts., Westmount, Que.	West. 3738
Simon, Robert C	Ap. Sci. 3	123 Bourbonniere St., Montreal	
Simpson, Alexander M	Med. 4	103 St. Famille St., Montreal Claresholm, Alta.	Plat. 6518
Simpson, Guy F	Arts 1	67 McTavish St., Montreal 93 Park Ave., Quebec, Que.	Up. 9130
Sims, Edwin B	Com. 2	4 Basset St., Montreal 274 Bowan Ave., Sherbrooke, Que.	Plat. 6014
Sims, James K	Arts 2	304 Prince Arthur St. W., Montreal 26 Ahrens St., Kitchener, Ont.	Plat. 3624
Sinclair, Harry A	Med. 2	74 Villeneuve St. W., Montreal	Bel. 4536-F
Singer, Frank L	Phar.	421 Esplanade Ave., Montreal	Bel. 6722
Sivertz, Christian	Grad. Sch. 2	112 Durocher St., Montreal 1278 Denman St., Victoria, B.C.	
Sivertz, Victorian	Grad. Sch. 2	112 Durocher St., Montreal 1278 Denman St., Victoria, B.C.	
Skinner, Peter S	Med. 4	277 Sherbrooke St. W., Montreal 1443 Clifton St. N.W., Washington, D.C.	Plat. 0425
Slattery, Patrick	Ap. Sci. 2	706 De l'Epée Ave., Outremont, Que. 10 Gordon St., Sherbrooke, Que.	
Smaill, Aileen M	Phy. Ed. 2	812 St. Urbain St., Montreal Huntingdon, Que.	Plat. 4591
Smallman, Thomas H	Ap. Sci. 1	Central Y.M.C.A., Drummond St., Montreal London, Ont.	Up. 6500
Smellie, Jean C	Arts 2	502 Dorchester St. W., Montreal Arundel, Que.	Up. 5230
Smilovitz, Samuel J	Arts 2	745 Shuter St., Montreal 34 Des Fosses St., Quebec, Que.	Plat. 3077
Smit, John S	Arts 2	532 St. Joseph St., Lachine, Que.	Lach. 804-J.
Smith, Arnold W	Ap. Sci. 2	166 Querbes Ave., Outremont, Que. Hillcrest, Alta.	At. 0259
Smith, Arthur J. M	Arts 4	79 Chesterfield Ave., Westmount, Que.	West. 2893
Smith, Bruce T	Med. 5	138 Milton St., Montreal 246 Oxford West, Moose Jaw, Sask.	Plat. 4672
Smith, Cicely E	Arts 1	740 Roslyn Ave., Westmount, Que.	West. 4600
Smith, Clifford B	Med. 4	240 Clifton Ave., Montreal	Wal. 2501-W.
Smith, Donald F	Ap. Sci. 4	322 St. Antoine St., Montreal Sutton, Que.	Up. 9332
Smith, Edgar W	Law 1	Strathcona Hall, Montreal Danville, Que.	Up. 1086
Smith, Errol F	Ap. Sci. 1	434 Lansdowne Ave., Westmount, Que.	West. 6594
Smith, Hamilton E	Ap. Sci. 4	4191 Sherbrooke St., Westmount, Que.	West. 1811
Smith, Harry E	Dent. 3	5 Durocher St., Montreal 1864 Rae St., Regina, Sask.	
†Smith, Hubert H	Arts 1	26 McTavish St., Montreal 436 Sparks St., Ottawa, Ont.	Up. 8633
Smith, John D	Arts 1	26 McTavish St., Montreal 55 Clandeboye Ave., Westmount, Que.	Up. 8633
Smith, Larratt H	Arts 3	26 McTavish St., Montreal 436 Sparks St., Ottawa, Ont.	Up. 8633
Smith, Muriel T	Phy. Ed. 2	129 Mayfair Ave., Montreal	Wal. 0850
Smith, Paul Sherman	Arts 3	67 McTavish St., Montreal Hawkesbury, Ont.	Up. 9130
Smith, Ralph L	Arts 3	751a Querbes Ave., Outremont, Que.	At. 3469
Smith, Reginald J	Arts 4	58 McTavish St., Montreal Taranaki, New Zealand.	
Smyth, Desmond	Arts 2	758 University St., Montreal	

†Died December 9th, 1924.
*Withdrew early in the session.

Where two addresses are given, the second is the home address.

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Smyth, Henry R.	Ap. Sci. 2	4822 Western Ave., Westmount, Que.	West. 4218
Snell, John M.	Arts 1	19 Maple Ave., St. Anne de Bellevue, Que.	St.Ann.137-W
Snow, Vernon A.	Med. 3	743 University St., Montreal	Up. 1475
		283 Besserer St., Ottawa, Ont.	
Snowball, Robert A.	Ap. Sci. 2	307 Pine Ave. W., Montreal	Up. 5680
Snyder, Eugene R.	Med. 2	685 University St., Montreal	Up. 0681
		114 E. 81 St., New York, N.Y.	
Soby, Harold W.	Med. 4	17 St. Mark St., Montreal	Up. 2184
		Claresholm, Alta.	
Socolow, Louis	Arts 2	702 City Hall Ave., Montreal	East 9478-J.
Solomon, Freda	Arts 2	187 Esplanade Ave., Montreal	Bel. 8609
Solomon, Jerome H.	Arts 3	Windsor Hotel, Montreal	
		4744 Forestville Ave., Chicago, Ill.	
Solomon, Sara	Com. P.	187 Esplanade Ave., Montreal	Bel. 8609
Solomon, Saul L.	Arts 3	1517 Park Ave., Montreal	Bel. 8148
Somerville, Cecil G.	Com. 3	127 Drummond St., Montreal	Up. 6500
		Corbyville, Ont.	
Somerville, Donald A.	Dent. 4	233 Mance St., Montreal	
		Bristol, N.B.	
Somerville, Lloyd M.	Arts 4	58 McTavish St., Montreal	Up. 2392
		Lanark, Ont., R.R. No. 4.	
Somerville, Wellington W.	Med. 1	776 University St., Montreal	Up. 9173
		553 Goyeau St., Windsor, Ont.	
Sommer, Edward J.	Arts 1	594 Cote St. Antoine Rd., Westmount, Que.	West. 7142
Sommer, Elsa C.	Arts 2	594 Cote St. Antoine Road, Westmount, Que.	West. 7142
Sommer, Isabel H.	Arts 4	594 Cote St. Antoine Road, Westmount, Que.	West. 7142
Sorkin, Maurice	Com. 1	2872 Cartier St., Montreal	Cal. 3461-W.
Sozansky, John	Arts 1	406 Frontenac St., Montreal	
Sparkes, John C.	Arts 1	756 University St., Montreal	
		33 Golf Ave., St. John's, Nfld.	
Spears, Russell B.	Com. 1	McGill Union, Montreal	Up. 4101
		437 Wellington St., Sarnia, Ont.	
Spector, Jack	Law 2 and Grad. Sch.	1613 Esplanade Ave., Montreal	Bel. 9768-M.
Spector, Leo	Arts 2	425 Durocher St., Montreal	At. 1416
Spector, Reuben	Law 1	1613 Esplanade Ave., Montreal	Bel. 9768-M.
Spence, Kenneth W.	Arts 1	348 Hingston Ave., Montreal	
Spitzer, Isidore	Phar. 1	1291 Clarke St., Montreal	Bel. 6106-J.
Spratt, George H.	Ap. Sci. 1	721 Shuter St., Montreal	Plat. 1507
		Billings Bridge, Ont., R.R. No. 1.	
Springer, Harold N.	Com. 1	815 Shuter St., Montreal	Plat. 6854
		209 Douglas Ave., St. John, N.B.	
Squires, Henry D.	Grad. Sch. 2	756 University St., Montreal	
		Regent St., Fredericton, N.B.	
*Stack, Hannah M.	Grad. Nurses 1.	1107D Wellington St., Montreal	
Stainsby, Wendell J.	Med. 5	108A St. Famille St., Montreal	Plat. 6768
		1004 Eastlake Ave., Saskatoon, Sask.	
Star, Marcus	Dent. 3	103 Craig St. W., Montreal	Plat. 3524
Starkey, Duncan H.	Arts 2	817 University St., Montreal	
Stattner, Philip	Arts 2	139 Pine Ave. East, Montreal	
Steacie, Edgar W. R.	Grad. Sch. 2	353 Grosvenor Ave., Westmount, Que.	
Steacy, Ethel D.	Arts 4	Royal Vic. College, Montreal	Plat. 0078
		18 Spruce St., Ottawa, Ont.	
Stearn, Edna V.	Arts P.	756 Sherbrooke St. W., Montreal	Up. 0298
Stearn, Yvonne I.	Arts P.	756 Sherbrooke St. W., Montreal	Up. 0298
Stearns, Eleanor	Arts P.	8 Macgregor St., Montreal	
Stein, Herbert H.	Com. 3	1465 St. Urbain St., Montreal	Bel. 5420
Stein, Louis	Phar.	2956 Papineau Ave., Montreal	
Stein, William	Med. 4	26C Colonial Ave., Montreal	Lan. 6377
Steinberg, Abraham	Dent. 3	1216 St. Urbain St., Montreal	Bel. 6573-J.
Steine, Ben Z.	Med. 5	819 University St., Montreal	Plat. 1365
Steine, Lyon	Med. 2	819 University St., Montreal	Plat. 1365
Stephen, Mildred	Soc. Workers 1.	439 West Hill Ave., Montreal	Wal. 1561-M.

*Withdrew early in the session.

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Stephenson, Harold E.	Com. P.	212 Brock Ave. N., Montreal West, Que.	Wal. 0286.
Stephenson, Leslie	Com. 2	799 St. Urbain St., Montreal.	Plat. 2634
		15 Princes Parade, Church End, Finchley, London, Eng.	
Steuerwald, Clinton F.	Dent. 1	52 McGill College Ave. Montreal.	
		Canaan, Col. Co., N.Y.	
Stevens, Walter O.	Ap. Sci. 4	621 Dorchester St. W., Montreal	Up. 7276
		c/o A. E. Stevens, Gen'l Supt., C.P.R., Winnipeg, Man.	
Stewart, Donald	Ap. Sci. 4	Sunnyside Ave., Lakeside, Que.	
Stewart, Flora F.	Grad. Nurses	761 St. Urbain St., Montreal.	
		Glasgow, Scotland.	
*Stewart, Hugh, M.	Ap. Sci. 2	167 Ontario St. W., Montreal.	
		Nordegg, Alta.	
Stewart, John A.	Med. 5	779 Shuter St., Montreal.	Plat. 4059
		Kinburn, Ont.	
Stewart, John R.	Ap. Sci. 2	299 Prince Arthur St. W., Montreal.	Plat. 0355
		Beebe, Que.	
Stewart, Leland N.	Arts 1	587 University St., Montreal.	
		Bluefield, Jamaica, B.W.I.	
Stewart, Neil McM.	Ap. Sci. 3	67 McTavish St., Montreal.	Up. 9130
		11013 87th Ave., Edmonton, Alta.	
Stewart, Robert N.	Arts 4	756 University St., Montreal.	Up. 0290
		250 Selkirk St., Chatham, Ont.	
Stewart, William F.	Ap. Sci. 4	40 McGill Coll. Ave., Montreal.	Up. 1202-W.
		P.O. Box 403, Antigonish, N.S.	
St. George, Harry S.	Com. 2	150 Crescent St., Montreal.	Up. 9132
Stilwell, Luther H.	Dent. 2	48 St. Matthew St., Montreal.	Up. 2040
Stitt, Helen G.	Phy. Ed. 1	282 West Hill Ave., Montreal.	Wal. 3222
Stitt, Margaret I.	Soc. Workers I.	282 West Hill Ave., Montreal.	Wal. 3222
Stockwell, Henry P.	Grad. Sch. 1	Central Y.M.C.A., Montreal.	
		Stanstead, Que.	
Stockwell, Hermann G.	Ap. Sci. 1	110 Crescent St., Montreal.	Up. 3698
		Stanstead, Que.	
Stocking, Mary F. S.	Arts 3	4038 Dorchester St. W., Westmount, Que.	West. 8718
Stoker, Dorothy S.	Arts 1	659 Grosvenor Ave., Westmount, Que.	West. 6451
Strachan, Lionel A.	Ap. Sci. 2	118 Brewster Ave., Westmount, Que.	West. 0155
Strapp, Gerald A.	Med. 4	415 Mackay St., Montreal.	Up. 2394-J.
		Harbour Grace, Nfld.	
Stromberg, Rose	Arts 3	275 De l'Epée Ave., Outremont, Que.	Atl. 1447
*Stuart, Albert W.	Arts P	756 University St., Montreal.	
		Napierville, Que.	
Stuart, Hugh A.	Med. 2	468 Sherbrooke St. W., Montreal	Up. 7557
		169 Park St., Sydney, N.S.	
Sturman, Pasco	Phar. 2	578 Centre St., Montreal.	
Sugden, George W.	Dent. 3	158 Metcalfe St., Montreal.	Up. 7541
		Cornwall, Ont.	
Sullivan, J. Kenneth	Med. 5	308 Prince Arthur St. W., Montreal.	Plat. 7472
		1 Alexandra St., St. John, N.B.	
Sullivan, Michael T. G.	Arts 2	76 Victoria St., Montreal.	
		Glace Bay, N.S.	
Sullivan, William C.	Dent. 3	128 Bishop St., Montreal.	Up. 7268
		Williamstown, Ont.	
Sutherland, George F.	Med. 2	348 Sherbrooke St. W., Montreal	Up. 1086
		1213 Barclay St., Vancouver, B.C.	
Sutton, Gordon A.	Arts 1	2421 Mance St., Montreal.	
Sutton, Joseph C.	Med. 2	2297 Waverly St., Montreal.	Bel. 7342-W.
		Chandler, Gaspé, Que.	
Swartz, Harry	Com. 2	4474 St. Catherine St. W., Westmount, Que.	West. 6783
Sweny, George W.	Grad. Sch.	571 University St., Montreal.	
		R.M.D. 4, Victoria, B.C.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Swift, Earl L.	Arts 3	2090A St. James St., Montreal St. Johns, Antigua, B.W.I.	West. 7089-J.
Sykes, William C. E.	Ap. Sci. 1	1758 Bordeaux St., Montreal	Amh. 6453
Symes, Gordon C.	Arts 1	113 Lewis Ave., Westmount, Que.	West. 6361
Symons, Jennie L.	Grad. Sch	360 Kensington Ave., Westmount, Que. Waterloo, Que.	
Tabacman, Joseph	Phar	1547 Mance St., Montreal	Bel. 7931-J.
Tabb, Walter H.	Phar	168 Nicolet St., Montreal	
Taggart, Eugene McKay	Com. 1	825 University St., Montreal 211 Clemon Ave., Ottawa, Ont.	Plat. 3464
Talbot, William E.	Arts 3	127 Drummond St., Montreal Hamilton, Bermuda, B.W.I.	Up. 6500
Talpis, Clarence	Arts 1	50 Arlington Ave., Westmount, Que.	West. 6826
Talpis, Veeta H.	Arts 3	50 Arlington Ave., Westmount, Que.	West. 6826
Tanenbaum, Hyman B.	Phar. 2	508 Colonial Ave., Montreal	Bel. 8053-M.
Tanzman, Joseph	Med. 3	301 Prince Arthur St. W., Montreal. St. John, N.B.	Plat. 0491
Tatleman, Maurice	Med. 2	2108 St. Urbain St., Montreal	Bel. 1415-F.
Tannahill, Eunice M.	Arts 1	Royal Vic. College, Montreal Huntingdon, Que.	Plat. 0078
Tatley, Herbert B.	Ap. Sci. 3	45 Durocher St., Montreal	Plat. 7088
Tatlow, Helen G.	Phy. Ed. 2	306A Prince Arthur St. W., Montreal, Que. 3689 Cartier Ave., Vancouver, B.C.	Plat. 5054
Taylor, Bertram	Ap. Sci. 1	294 Oxford Ave., Montreal	
Taylor, Frank D.	Ap. Sci. 2	Strathcona Hall, Montreal Golden Ridge, Barbados, B.W.I.	Up. 1086
Taylor, John A.	Arts 3	80 Victoria St., Montreal c/o The Diamond, Lifford, Co. Donegal, Ireland.	Up. 7819-M.
Taylor, John N.	Med. 2	591 University St., Montreal Almonte, Ont.	
Taylor, St. Elmo E.	Med. 4	587 University St., Montreal 87 Lexington Ave., Brooklyn, N.Y.	Up. 4597-F.
Taylor, Willard D.	Ap. Sci. 4	233 Sherbrooke St. W., Montreal 14 McDougall Ave., Ottawa, Ont.	Plat. 3180
Taylor, William G.	Arts 2	107 Cote St. Antoine Rd., Westmount, Que.	West. 1808
Teakle, Harold P.	Arts 2	4063 Dorchester St., Westmount, Que.	West. 2842
Teggart, Dorothy M. L.	Med. 4	125 Bayle St., Montreal	Up. 0806-J.
Teitelbaum, Michael H.	Med. 5	90 Laurier Ave. W., Montreal	Bel. 6580
Tennant, Ralph C.	Arts 3	156 Easton Ave., Montreal West, Que.	Wal. 0821
Terk, Sophia	Arts P	1048 Clarke St., Montreal	Plat. 4913
Terroux, F. Richard	Arts 4	129 Crescent St., Montreal	Up. 2237-W.
Theobalds, Thomas R.	Ap. Sci. 2	587 University St., Montreal Rose Hill, Castries, St. Lucia, B.W.I.	Up. 4597-F.
Theriault, Omer P.	Ap. Sci. 2	770 Cadieux St., Montreal	Lan. 7488
Thomas, William F.	Arts 1	2548 Hutchison St., Montreal	
Thomas, William J.	Com. 3	1076 Delorimier Ave., Montreal	Bel. 7608
Thompson, Clifford S.	Med. 5	308 Prince Arthur St. W., Montreal. North Sydney, N.S.	Plat. 7472
Thompson, Ethel B.	Phy. Ed. 2	2516 Mance St., Montreal	Cal. 3612
Thompson, Frederick C.	Dent. 3	851 University St., Montreal 71 Ossington Ave., Ottawa, Ont.	Plat. 5070
Thompson, Hugh H.	Med. 2	459 Mackay St., Montreal 200 High St., Detroit, Mich.	Up. 6610
Thompson, John E.	Com. 1	492 Grosvenor Ave., Westmount, Que.	
Thompson, Leonard A.	Arts 1	58 McTavish St., Montreal Clayton ,Ont., R.R. No. 2.	Up. 2392
Thompson, Robert C.	Dent. 2	318 Hampton Ave., Montreal	Wal. 1007
Thompson, William	Arts 1	2658 Hutchison St., Montreal	
Thompson, William B.	Arts 1	627 Belmont Ave., Westmount, Que.	West. 0676
Thomson, Alice R.	Arts 1	5229 Sherbrooke St., Westmount, Que.	West. 2215-W.
Thomson, Walter W.	Grad. Sch. 3	251 Decarie Blvd., Montreal	
Thorburn, Norman A.	Arts 2	3857 St. Denis Blvd., Montreal	Cal. 5914-F.

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Thorpe, Benj. James	Arts 1	513 Davidson St., Montreal	Clair. 2243-F.
Thurber, Donald S	Med. 5	327 Champagneur St., Montreal	At. 2907
		Millerton, N.B.	
Tilton, Frederick B	Com. 1	Central Y.M.C.A., Montreal	Up. 6500
		86 Mecklenburg St., St. John, N.B.	
Timmins, Leo H	Ap. Sci. 4	99 Gordon Crescent, Westmount, Que	West. 2107
Tinkess, Donald E	Med. 5	464 Sherbrooke St. W., Montreal	Up. 6220
		135 Bowers Ave., Watertown, N.Y.	
Tinkoff, Lazarus	Arts P	25 DeMontigny St. E., Montreal	East 4867
Todd, Evelyn M	Arts 1	597 Argyle Ave., Westmount, Que.	West. 0722
Todd, Harold J	Ap. Sci. 1	Wesleyan Col. Annex, Montreal	
		1988 Ernest Ave., Victoria, B.C.	
Touzel, Eugene C. S	Med. 2	202 Bishop St., Montreal	Up. 0695-F
		Renfrew, Ont.	
Towne, Alfred J	Dent. 4	3584 Park Ave., Montreal	Plat. 5685
		2077 Cameron St., Regina, Sask.	
Trapp, Ethlyn	Med. 3	22 McTavish St., Montreal	Up. 3607
		New Westminster, B.C.	
Troy, William T	Arts 1	148 Cote St. Antoine Rd., Westmount, Que	
		Leonard, Ont.	
Tsakmakis, James G	Med. 1	794 Clarke St., Montreal	Plat. 1497
		388 Suffolk St., Lowell, Mass.	
Tucker, Michael L	Ap. Sci. 1	851 University St., Montreal	Plat. 5070
		1523 Wood Ave., Colorado Springs, Col., U.S.A.	
Turner, Alice W	Arts 2	79 Columbia Ave., Westmount, Que.	West. 5670
Turner, Arthur L	Arts 4	986 Tupper St., Montreal	Up. 0710
		13 Mt. Pleasant, Liverpool, Eng.	
Turpel, William N	Med. 5	464 Sherbrooke St. W., Montreal	Up. 6220
		2551 Quadra St., Victoria, B.C.	
Tweedie, Beatrice H	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		78 Strawberry Hill, Stamford, Conn.	
Tyson, Thomas	Arts P	770 University St., Montreal	
		Whitehaven, Cumberland, Eng.	
Vail, Annie I	Soc. Workers	497 Grosvenor Ave., Westmount, Que	West. 2000
		Brockway, R.R. No. 4, York Co., N.B.	
Valentine, Hugh A. I	Ap. Sci. 2	5255 Ninth Ave., Rosemount, Montreal	Clair. 6218-J
Vallieres, Joseph L	Med. 4	719 Garnier St., Montreal	Bel. 6437-W
		57 Center St., Biddeford, Me.	
Van Vliet, George L	Law 2	756 University St., Montreal	Up. 0290
		Lacolle, Que.	
Van der Vyver, Gyobertha B.	Soc. Workers	138 Durocher St., Montreal	Plat. 2526
		19 Rembrandtlaan, Bildhoven, Holland.	
VanWyck, Norman	Arts 1	621 Belmont Ave., Westmount, Que.	
Vernot, George E	Ap. Sci. 4	293 St. George St., Montreal	Plat. 1388
Viberg, Ernest F	Ap. Sci. 1	1195 Cote St. Antoine Rd., Montreal.	Wal. 3735-W
Vickerson, George L	Ap. Sci. 4	277 Regent Ave., Montreal	Wal. 1927-M
Villard, Paul	Com. 2	17 Vendome Ave., Montreal	West. 2078-W
Villella, Frank R	Ap. Sci. 2	510 Oxford Ave., Montreal	
Vincent, Farrell J	Ap. Sci. 1	1045 Mt. Royal Blvd., Montreal	At. 0056
Vineberg, Arthur M	Med. 2	324 Elm Ave., Westmount, Que.	West. 0033
Vineberg, Evelyn F	Arts P	324 Elm Ave., Westmount, Que.	West. 0033
Vineberg, Stanley A	Com. 2	324 Elm Ave., Westmount, Que.	West. 0033
Voisard, Amaury C	Dent. 2	112 St. Joseph Blvd. E., Montreal	Bel. 7970-J
Voss, Harry E	Med. 1	815 Shuter St., Montreal	Plat. 6854
		69 Spring St., Kingston, N.Y.	
Wade, Robert S	Med. 5	756 University St., Montreal	Up. 0290
		Renfrew, Ont.	
Wainer, Isidore J	Law 1	1113 St. Dominique St., Montreal	Plat. 2906
Wait, Philip A	Com. 3	825 University St., Montreal	Plat. 3464
		169 Clemow Ave., Ottawa, Ont.	
Walker, Douglas W	Med. 5	6150 Sherbrooke St. W., Montreal	Wal. 1574
Walker, Eric Trevor	Ap. Sci. 1	6150 Sherbrooke St., W. Montreal	Wal. 1574
Walker, William D. S	Ap. Sci. 1	Central Y.M.C.A., Montreal	Up. 6500
		75 Albion St., Brantford, Ont.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Walker, William H	Dent. 1	823 University St., Montreal	Plat. 0354
		Chatham, N.Y.	
Wall, Bernard W	Arts 3	1762 Jeanne Mance St., Montreal	Bel. 6366-W
Wall, Jack J	Med. 4	90 St. Famille St., Montreal	Plat. 5671
		222 Florence St., Ottawa, Ont.	
Wallace, Arthur W	Ap. Sci. 4	825 University St., Montreal	Plat. 3464
		41 Cornwall St., Halifax, N.S.	
Wallace, Reginald H	Ap. Sci. 3	297 Prince Arthur St. W., Montreal	Plat. 2681
		41 Cornwall St., Halifax, N.S.	
Walsh, Desmond	Arts 1	43 Trafalgar Ave., Montreal	
Walsh, Gerald J	Arts 1	754 Hartland Ave., Montreal	
Walsh, Muriel H	Arts P	754 Hartland Ave., Montreal	
Walsh, Ronald J	Med. 5	3563 Park Ave., Montreal	Plat. 1805
		408 Park St., Sydney, N.S.	
Walter, Albert J. P	Ap. Sci. 4	815 Shuter St., Montreal	Plat. 6854
		Royal Alfred Observatory, Mauritius.	
Walters, Albert R	Med. 3	510 Oxford Ave., Montreal	
		P.O. Box 271, Lennoxville, Que.	
Ward, Clifford V	Med. 4	31 Lincoln Ave., Montreal	Up. 6450-W
		Waterville, Que.	
Ward, Edythe A	Grad. Nurses 1	57 King Edward Ave., Montreal	
Ward, Ruth	Arts 3	446 Durocher Ave., Montreal	At. 1846
Ward, Wallace H	Arts 1		
		Macdonald College, P.O., Que.	
Wardleworth, Eleanor S	Arts 1	168 Cote St. Antoine Rd., Westmount, Que.	West. 2018
Wardleworth, Theophilus H	Ap. Sci. 4	168 Cote St. Antoine Rd., Westmount, Que.	West. 2018
Wardwell, Elizabeth D	Arts 1	102 Closse St., Montreal	Up. 2278
Warner, Elizabeth N	Med. 1	22 McTavish St., Montreal	
Warnock, William J	Ap. Sci. 1	127 Drummond St., Montreal	Up. 6500
		2132 Belmont Ave., Victoria, B.C.	
Warren, Geoffrey MacD	Ap. Sci. 4	823 University St., Montreal	Plat. 0354
		Penticton, B.C.	
Warwick, Ralph B	Com. P	304 Prince Arthur St. W., Montreal	Plat. 3624
		34 Orange St., St. John, N.B.	
Wasserman, Gertrude	Arts 1	772 Clarke St., Montreal	Plat. 2638
Watson, Arthur M	Dent. 3	Central Y.M.C.A., Montreal	Up. 6500
		11116 88th Ave., Edmonton, Alta.	
Watson, David S	Dent. 3	564 Champagneur St., Outremont, Que.	At. 3092
Watson, Edmond E	Arts 4	304 Prince Arthur St. W., Montreal	Plat. 3624
		New Yarmouth, Race Course P.O., Jamiaca, B.W.I.	
Watt, Ruth E	Phy. Ed. 2	4342 Westmount Ave., Westmount, Que.	West. 1868
Waye, David T	Dent. 2	167 Hutchison St., Montreal	
		Charlottetown, P.E.I.	
Wayland, Joseph G	Com. 1	1301 St. Viateur St., Outremont, Que.	At. 2702
Wayland, Raymond J	Ap. Sci. 1	1301 St. Viateur St., Outremont, Que.	At. 2702
Weames, Albert J	Ap. Sci. 3	2378 Jeanne Mance St., Montreal	
		566 Maitland St., London, Ont.	
Webb, Frederick T	Com. 3	336 Liverpool St., Montreal	York 2077-W
Weber, Willard J	Arts 2	750 City Hall Ave., Montreal	East 8570-J
Webster, Bruce	Med. 5	127 Drummond St., Montreal	Up. 6500
		Lansdowne, Ont.	
Webster, Eric J	Ap. Sci. 1	84 Lorne Ave., St. Lambert, Que.	St. Lamb. 26
Webster, James S	Ap. Sci. 3	348 Sherbrooke St. W., Montreal	Up. 1086
		96 Fourth Ave., Ottawa, Ont.	
Webster, Lindsay P	Com. 3	84 Lorne Ave., St. Lambert, Que.	St. Lamb. 26
Wechsler, Jacob J	Med. 5	745 Shuter St., Montreal	Plat. 3077
		Chicago, Ill.	
Weiman, Maurice	Arts P	569 Laval Ave., Montreal	
Weinberg, Marvin S	Com. 1	239 Wilson Ave., Montreal	Wal. 1218
Weinman, Nathan	Arts 1	718 Colonial Ave., Montreal	Bel. 1315-F
Weinrauch, Joseph G	Phar. 2	321 Querbes Ave., Outremont, Que.	At. 2811
Weintraub, David	Arts 2	115 Laurier Ave. W., Montreal	West. 4432
		11 Orr Sq., Revere, Mass.	
Weir, Alison A	Arts 1	635 Belmont Ave., Westmount, Que.	West. 6896

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Weir, Doris M.	Grad. Nurses 1.	2361 Hutchison St., Montreal.	
Weir, Ronald S.	Ap. Sci. 2.	756 Sherbrooke St. W., Montreal.	Up. 7265
Weldon, Frederick E.	Ap. Sci. 1.	719 Drummond Court, Drummond St., Montreal.	
Wells, Hubert.	Law 2.	202 Milton St., Montreal.	Plat. 0474
		Alburg, Vt.	
Wener, William V.	Med. 3.	1127 Clarke St., Montreal.	
West, Alfred M.	Law 1.	350 Belmore Ave., Montreal.	Wal. 1552
West, Cecil R.	Grad. Sch. 2.	793 St. Urbain St., Montreal.	
		5269 Brooklyn Ave., Seattle, Wash.	
West, William G.	Arts 1.	766 Delorimier Ave., Montreal.	East 5619
Westlake, Alice E.	Phy. Ed. 2.	306A Prince Arthur St. W., Montreal.	Plat. 5054
		Woodville, Ont.	
Westoby, Grantham H. A.	Arts 1.	127 Drummond St., Montreal.	Up. 6500
		143 Glasgow St., Guelph, Ont.	
Wetmore, Katherine S.	Arts 2.	Royal Victoria College, Montreal.	Plat. 0078
		Truro, N.S.	
Wevrick, Noah.	Arts 4 & Med. 1	489A Henri Julien Ave., Montreal.	East 8765-J
Wevrick, Solomon.	Law 1.	489A Henri Julien Ave., Montreal.	East. 8765-J
Wheatley, Rupert A.	Dent. 3.	657 Belmont Ave., Westmount, Que.	West. 0780
Wheeler, John R.	Arts P.	756 University St., Montreal.	Up. 0290
		Knowlton, Que.	
White, Harold M.	Com. 1.	33 Royal Ave., N.D. de Grace, Montreal.	Wal. 1032
White, James G.	Med. 1.	154 Drummond St., Montreal.	
White, Murray G. A.	Com. 1.	304 Prince Arthur St. W., Montreal.	Plat. 3624
		577 Huron St., Toronto, Ont.	
White, Thomas N.	Arts 3.	100 Easton Ave., Montreal West, Que.	Wal. 0415-W
White, William J.	Ap. Sci. 2.	24 St. Helen St., Montreal South, Que.	
Whitehead, J Gordon.	Arts 1.	794 Shuter St., Montreal.	Plat. 6452
Whitehead, Wallace I.	Arts 2.	287 Clifton Ave., Montreal.	Wal. 1720
Whyte, Carlin J.	Ap. Sci. 1.	748 Shuter St., Montreal.	Plat. 4029
		118 Fraser St., Quebec, Que.	
Wickham, Paul.	Law 3.	Room 702, 145 St. James St., Montreal.	Main 0315
		408 Victoria Ave., St. Lambert, Que.	St. Lamb. 79
Wight, Evelyn M.	Arts 2.	Woodlands, Que.	
Wight, G. Earle.	Med. 5.	465 Moreau St., Montreal.	Clair. 0010
Wilcock, George F.	Arts 2.	52 36th Ave., Lachine, Que.	
Wilkinson, Edward H.	Arts 2.	849 Oxenden Ave., Montreal.	Plat. 5707
		14 Holbrook St., Ausonia, Conn.	
Williams, Frances E.	Arts 3.	Royal Victoria College, Montreal.	Plat. 0078
		185 Germain St., St. John, N.B.	
Williams, Harold M.	Ap. Sci. 3.	300 Prince Arthur St. W., Montreal.	Plat. 3656
Williams, Robert L.	Arts 3.	44 Trafalgar Ave. Montreal.	West. 0035
Williamson, John T.	Arts 1.	Wesleyan Theo. College, Montreal.	Up. 0290
		Point Fortune, Que.	
Williamson, Ruth A.	Arts 2.	4020 Dorchester St. W., Westmount, Que.	West. 5048
Willing, Edgar F.	Arts 1.	5614 Park Ave., Montreal.	At. 4135-W
Wilson, Anne D.	Arts P.	233 Durocher St., Outremont, Que.	
Wilson, Catherine R.	Soc. Workers.	119 St. Matthew St., Montreal.	
Wilson, Dudley B.	Arts 4.	4560 St. Catherine St. W., Westmount, Que.	West. 1662
Wilson, Evelyn C. E.	Arts 3.	450 Grosvenor Ave., Westmount, Que.	West. 1804
Wilson, Gilbert.	Ap. Sci. 4.	823 University St., Montreal.	Plat. 0354
		Elmhurst, Kendal, Eng.	
Wilson, Harold S.	Grad. Sch. 1.	743 University St., Montreal.	
		Indian Head, Sask.	
Wilson, Jean E.	Arts 1.	617 Belmont Ave., Westmount, Que.	West. 3430
Wilson, Milton.	Med. 3.	3538 Park Ave., Montreal.	Up. 4597-F
		701 Baker St., Baltimore, Md.	
Wilson, Valentine W. G.	Ap. Sci. 3.	756 University St., Montreal.	Up. 5636
Wilson, William H.	Law 2.	150 Drummond St., Montreal.	Up. 1883

Where two addresses are given, the second is the home address.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Winn, Albert R.	Dent. 1	32 Springfield Ave., Westmount, Que.	West. 0292
Winter, Francis E.	Ap. Sci. 3	4684 Westmount Ave., Westmount, Que.	West. 0334
Winter, Jacob	Med. 3	1900 Hutchison St., Montreal	At. 4484-F
Wise, Alfred J	Ap. Sci. 2	6686 3rd Ave., Rosemount, Montreal	
Wiseberg, Max	Med. 1	788 St. Dominique St., Montreal	
Wiselberg, Dorothy	Arts 3	3 Holton Ave., Westmount, Que.	West. 5614-W
Witmer, Earl R. W.	Com. 3	851 University St., Montreal	Plat. 5070
		32 Palmerston Ave., Brantford, Ont.	
Wittenberg, Arthur A.	Med. 4	1518 Ontario St. E., Montreal	
Wolepor, Benjamin	Med. 5	68 7th Ave., Lachine, Que.	Bel. 6025
Wolf, Israel J.	Med. 2	685 University St., Montreal	Up. 0681
		2 Park Road, Paterson, N.J.	
Wolfe, Joseph E.	Ap. Sci. 1	233 Mance St., Montreal	Plat. 3822
		92 Court St., Sherbrooke, Que.	
Wolfson, Charles	Arts 3	3156 St. Lawrence Blvd., Montreal	Cal. 0973
Wolofsky, Max	Med. 1 and Arts 4	237 Esplanade Ave., Montreal	Bel. 3892-W.
Woloshen, Freda	Soc. Workers 1	60 Villeneuve St. W., Montreal	Bel. 2293
		60 St. Dominique St., Quebec [Que.	
Wood, James	Ap. Sci. 4	Strathcona Hall, Montreal	Up. 1086
		764 Transet Road, Oak Bay, Victoria, B.C.	
Wood, Ralph P.	Med. 4	464 Sherbrooke St. W., Montreal	Up. 6220
		30 Church St., Everett, Mass.	
Woodruff, Richard S.	Med. 2	320 Prince Arthur St. W., Montreal	Plat. 0761
		19 Bartlett Ave., Pittsfield, Mass.	
Woodhouse, Douglas H.	Grad. Sch. 1	67 McTavish St., Montreal	
Woods, Frederick L.	Com. 1	34 McGill Coll. Ave., Montreal	Up 4629.
		Port Colborne, Ont.	
Woolfrey, Wilfred J.	Arts P	756 University St., Montreal	Up. 0290
		Point Fortune, Que	
Woollcombe, George A.	Com. 3	825 University St., Montreal	Plat. 3464
		Rockliffe Park, Ottawa, Ont.	
Woolley, Lawrence G.	Arts 2	349 Melrose Ave., Montreal	Wal. 0936
Worden, Jean G.	Arts 1	4290 Montrose Ave., Montreal	West. 6689
Workman, Ephraim	Med. 3	10 Stanley St., Montreal	Up. 1317
Worrall, Alice	Arts 4	39 Brissette St., Cote St. Paul, Montreal	
Wright, Charles B.	Med. 1	756 University St., Montreal	Up. 0290
		R.R. No. 3, Box 180, Moncton, N.B.	
Wright, Cordner C.	Arts 1	770 University St., Montreal	Up. 8633
		345 Waverley St., Ottawa, Ont.	
Wright, James G.	Ap. Sci. 2	415 Victoria Ave., Westmount, Que.	West. 3632
Wright, John A.	Med. 2	McGill Union, Montreal	Up. 4101
		565 West 185th St., New York, N.Y.	
Wright, Mary I.	Grad. Nurses	338 Mackay St., Montreal	
Wyers, Geraldine R.	Arts 1	Royal Vic. College, Montreal	Plat. 0078
		Campbellton, N.B.	
Wyers, Gladys Alice	Phy. Ed. 1	724 University St., Montreal	Up. 3369
		Campbellton, N.B.	
Wylie, Clarence A.	Soc. Workers 1	37 Selby Ave., Westmount, Que.	West. 1059-M
Wylie, Robert H.	Arts 4	67 McTavish St., Montreal	Up. 9130
		Mountain, Ont.	
Wynn, John M.	Com. 2	121 Brock Ave. S., Montreal West, Que.	Wal. 1018
Yaffa, Hyman	Phar.	2270 St. Urbain St., Montreal	Bel. 7991-W.
Yaphe, E. Lewis	Arts 1	541 Wilson Ave., Montreal	
Yaros, Harry	Arts 2	91 Esplanade Ave., Montreal	Bel. 4658-F.
Yelin, Moses S.	Arts 1	49A St. Famille St., Montreal	
Yerxa, Alfred C.	Com. 3	841 Oxenden Ave. Montreal	Plat. 0356
		324 Northumberland St., Fredericton, N.B.	
Yisudas, Benjamin O.	Arts 2	265 Union Ave., Montreal	Up. 4841
		Mysore, India.	
York, Geoffrey W. B.	Med. 4	776 University St., Montreal	Up. 9173
		112 Strathcona Ave., Ottawa, Ont.	
Yorston, Frederick H.	Grad. Sch. 2	5292 Park Ave., Montreal	

Where two addresses are given, the second is the home address.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Young, Charles H	Arts 2	770 University St., Montreal North Sydney, N.S.	Up. 5871
Young, John M	Arts 3	607 Earnscliff Ave., Montreal	Wal 2294-J.
Young, Wendell E	Ap. Sci. 1	513 St. Clement St., Montreal	Clair. 5161-J
Yuile, Charles L	Arts 2	70 Ontario Ave., Montreal	Up. 2182
Yuile, William S	Ap. Sci. 2	70 Ontario Ave., Montreal	Up. 2182
Zaltsman, Eva	Arts 3	236 Colonial Ave., Montreal	
Zaltsman, Rose M	Arts 1	236 Colonial Ave., Montreal	
Zaritsky, Alexander	Med. 1	1490 Cadieux St., Montreal Ste. Sophie, Terrebonne Co., Que.	
Zelinker, Ray	Arts 1	1397 St. Urbain St., Montreal	Bel. 0695-M.
Zinck, Olive L	Grad. Nurses 1	Royal Vic. Hosp., Montreal Chester, N.S.	
Ziff, Edythe R. Z	Phy. Ed. P. and Arts P	360 Villeneuve Ave. W., Montreal	At. 2474
Zimand, Charles J	Arts 2	183 Esplanade Ave., Montreal	Bel. 6454-M.
Zoll, Samuel H	Arts 2	McGill Union, Montreal 10 Reynolds Ave., Everett, Mass.	
Zuckerman, Abraham	Arts 2	442 St. Dominique St., Montreal	Eas. 8756-J.
Zuckerman, Joshua	Med. 5	133 Rachel St. E., Montreal	Bel. 6025

TELEPHONE NUMBERS

McGill University	Up.	5920
University Medical Officer, Dr. F. W. Harvey (Residence)	West.	5599
Students' Council	Up.	4101
President—B. C. MacLean	Up.	4101
Secretary—G. H. Fletcher	Up.	4101
McGill Union	Up.	4101
President—T. F. Newton Vice-President—N. W. Philpott Secretary—J. A. Wright (After 10.00 p.m. Sunday after 7.00 p.m.)	Up.	2870
McGill Daily—H. MacMillan, Editor-in-Chief	Up.	4101
" " After 10 p.m. Sunday after 7.00 p.m.	Up.	2808
Strathcona Hall	Up.	1086
General Secretary, McGill S.C.A.	Up.	1547
Athletic Manager (Major Forbes)	Up.	9111
Royal Victoria College	Plat.	0078
Hostel School of Physical Education	Up.	3369
McGill Stadium—Field House	Up.	6579
Conservatorium of Music	Up.	0038
Secretary's Office	Up.	3297
Faculty Club	Up.	7399
Wesleyan Theological College	Up.	0290
Presbyterian College	Up.	9130
Diocesan College	Up.	2329
Congregational College	Up.	2392
Divinity Hall	Up.	6226
Montreal General Hospital	East	7100
Royal Victoria Hospital	Up.	2620

FRATERNITIES

Alpha Delta Phi	Up.	2143
Alpha Kappa Kappa	Plat.	0761
Delta Upsilon	Up.	8633
Delta Kappa Epsilon	Plat.	3624
Delta Sigma Phi	Up.	9109
Delta Sigma Pi	West.	4191
Epsilon Phi	Plat.	0474
Kappa Alpha	Plat.	0354
K.R.T.	Plat.	7472
Nu Sigma Nu	Up.	7557
Omega Psi Phi	Up.	4597-F
Phi Chi	Up.	6220
Phi Delta Theta	Plat.	6979
Phi Kappa Pi	Plat.	5070
Phi Rho Sigma	Up.	9173
Pi Lambda Phi	Plat.	1681
Psi Omega	Up.	7541
Sigma Alpha Mu	Plat.	3077
Theta Delta Chi	Plat.	3464
Tau Epsilon Phi	East	521-J
Zeta Beta Tau	Up.	0681
Zeta Psi	Plat.	2681

SUMMARY OF REGISTRATION

SESSION 1924-25

ARTS				
First Year	—Men	201	...	...
	Women	...	94	295
Second Year	—Men	162	...	...
	Women	..	68	230
Third Year	—Men	80	...	...
	Women	...	46	126
Fourth Year	—Men	69	...	...
	Women	...	45	114
Partials	—Men	66	...	...
	Women	...	41	107
Total	—Men	578		
	Women		294	872
Total in Arts				872
COMMERCE				
First Year	—Men	76	...	...
	Women	...	4	80
Second Year	—Men	47	...	...
	Women	...	4	51
Third Year	—Men	52	...	...
	Women	...	1	53
Partials	—Men	12	...	...
	Women	..	3	15
Total	—Men	187		
	Women		12	199
Total in Commerce				199
LAW				
First Year	—Men	28	...	...
	Women	...	1	29
Second Year	—Men	25	...	25
Third Year	—Men	11	...	...
	Women	...	1	12
Total	—Men	64		
	Women		2	66
Total in Law				66
DENTISTRY				
First Year	—Men	14	...	14
Second Year		25	...	25
Third Year	—Men	34	...	...
	Women	...	1	35
Fourth Year		40	...	40
Total	—Men	113		
	Women		1	114
Total in Dentistry				114
MEDICINE				
First Year	—Men	85	...	...
	Women	...	5	90
Second Year	—Men	93	...	...
	Women	...	4	97
Third Year	—Men	102	...	...
	Women	...	5	107
Fourth Year	—Men	101	...	...
	Women	...	4	105
Fifth Year	—Men	91	...	...
	Women	...	1	92
Total	—Men	472		
	Women		19	491
Total in Medicine				491

APPLIED SCIENCE			
First Year	...	...	124
Second Year	...	...	100
Third Year	...	...	84
Fourth Year	...	...	103
Fifth Year (Arch.)	...	...	4
Total in Applied Science			415
GRADUATE NURSES			
Total	...	...	25
GRADUATE SCHOOL			
Total—Men	119	...	...
Women	...	15	134
Total in the Graduate School			134
MUSIC			
Regular Students—Men	3	...	...
Women	...	17	20
Senior Partials —Men	17	...	...
Women	...	63	80
Total —Men	20		
Women		80	100
Total in Music			100
PHARMACY			
Total			58
PHYSICAL EDUCATION			
First Year—Women	..	...	26
Second Year—Women	...	...	24
Partials —Men		...	1
Total in Physical Education	...	...	51
SOCIAL WORKERS			
Total	...	...	26
SCHOOL OF AGRICULTURE			
First Year	...	...	16
Second Year	...	...	6
Third Year	...	...	13
Fourth Year	...	...	16
Partials	...	...	4
Total in Agriculture			55
SCHOOL OF HOUSEHOLD SCIENCE			
Institution Administration, Junior	...	...	19
Institution Administration, Senior	...	...	17
B.H.S.	...	...	1
B.H.S.	...	...	6
Partials—Home Makers 29 Autumn Short Course 16 Student Workers 2	...	...	47
Total in Household Science			90
Total—Men			2,082
Total—Women			614
Grand Total			2,696
Less Registered in Arts and Medicine, 12 Men and 4 Women			16
			2,680

UNDERGRADUATE AND GRADUATE SOCIETIES

No club or Society which has not been approved by the Corporation is entitled to use the name of the University, or of the Royal Victoria College. Application for such approval, accompanied by a copy of the constitution, should be addressed to the Registrar.

The Students' Council of McGill University

OFFICERS 1925-26

President—BASIL C. MACLEAN.
Secretary—G. H. FLETCHER.

B. F. JAMIESON—President of McGill Union.
T. F. M. NEWTON—President of "McGill Daily."
ARTHUR B. MANSON—Representative of Medicine.
NEY K. GORDON—Representative of Commerce.
SCOTT T. GOODNOH—Representative of Dentistry.
LLOYD B. ALMOND—Representative of Science.
G. BEVERLY PUDDICOMBE—Representative of Law.
FRANK M. GODINE—Representative of Arts.

McGill Women Students' Society

OFFICERS 1925-26

Honorary President—To be elected.
President—MISS FRANCES STOCKING

Other officers to be elected by and from the Executive Council in October.

The McGill Union

OFFICERS 1925-26

President—BROCK F. JAMIESON.
Vice-President—ROBERT V. FORTUNE.
Secretary—WM. J. H. ABEY.
Treasurer—G. H. FLETCHER.

"McGill Daily"

OFFICERS 1925-26

President—T. F. M. NEWTON.
Editor-in-Chief—T. M. GORDON.
Managing Editor—E. D. MACLEOD.
Secretary-Treasurer and Advertising Manager—G. H. FLETCHER.

News Board.

Assignment Editor—D. A. MACDONALD.
Intercollegiate Editor—T. H. HARRIS.
J. G. BRIERLEY, C. B. COPLAND, C. H. DAWES, L. EDEL, J. FRITH, R. HARKNESS, K. OXLEY, L. WILLIAMS.
Editor of the Literary Supplement—A. B. LATHAM.

R.C.V. Members.

Editor—M. W. MACLEAN.
Assistant Editor—A. ARCHIBALD.
Night Editors—M. GILMAN, B. GREEN.

Literary and Debating Society

OFFICERS 1925-26

Hon. President—COL. WILFRID BOVEY
President—ARTHUR O. LLOYD.
Vice-President—JACK SPECTOR.
Secretary—LEO EDEL.
Treasurer—H. C. GOLDENBERG.
I.U.D.L. Representative—ELMER MACLEOD.

Canadian Club

OFFICERS 1925-26

President—AYLMER L. MORRIS.
Vice-President—To be elected.
Secretary—To be elected.

Arts Undergraduates' Society

OFFICERS 1925-26

President—R. B. MACLEOD.
Vice-President—John M. DUCKWORTH.
Secretary—FRED SCOTT.
Treasurer—A. A. MACNAUGHTON.

R. V. C. Undergraduates' Society

OFFICERS 1925-26

Hon. President—To be elected.
President—MISS LEILA ARGUE.
Vice-President—MISS ISABELLE SCRIVER.
Secretary-Treasurer—MISS JOAN EVE.

Law Undergraduates' Society

OFFICERS 1925-26

President—HUBERT WELLS.
Vice-President—C. BALLANTYNE.
Secretary—To be elected.
Treasurer—C. S. COPE.

Medical Undergraduates' Society

OFFICERS 1925-26

President—J. J. WALL.
Vice-President—CLAUDE KIRK.
Secretary—P. DOYLE.
Treasurer—CHARLES O'REGAN.
Case Reporter—H. A. PEACOCK.
Assistant Secretary—WARDE B. ALLAN.

McGill School of Physical Education Undergraduates' Society

OFFICERS 1925-26

Hon. President—MISS E. M. CARTWRIGHT.
President—MISS ESTELLE AMARON.
Vice-President—MISS RUTH MCDIARMID.
Secretary—To be elected.
Treasurer—To be elected.
Athletic Manager—MISS MARGARET BURTON.

Political Economy Club

OFFICERS 1925-26

Hon. President—DR. LEACOCK.
Hon. Vice-Presidents—DR. HEMMEON, DR. DAY.
President—A. G. NAIRN.
Vice-President—A. LATHAM.
Secretary—R. GAMMELL.
Treasurer—T. M. GORDON.

Chemical Society

OFFICERS 1925-26

President—PAUL LAROSE, M.Sc.
Secretary-Treasurer—G. W. HOLDEN, M.Sc.
Committee: D. M. MORRISON, Ph.D.; E. S. BIELER, Ph.D.; W. W. THOMPSON, M.Sc.

Mining and Metallurgical Society

OFFICERS 1925-26

Hon. Presidents—DR. J. B. PORTER, DR. A. STANSFIELD.
President—C. M. ANSON.
1st Vice-President—E. W. T. GILL.
2nd Vice-President—R. M. P. HAMILTON.
Secretary-Treasurer—L. B. ALMOND.

Physical Society

OFFICERS 1925-26

President—DR. E. S. BIELER.
Vice-President—DR. J. S. FOSTER.
Secretary—B. PRIESTMAN, B.A.
Committee: DR. A. S. EVE. DR. L. V. KING. PROFESSOR R. P. D. GRAHAM.
Acting Director—DR. DAVID A. KEYS.

Radio Association

OFFICERS 1925-26

Hon. President—DR. E. S. BIELER.
President—R. S. WEIR.
Vice-President—G. D. CAMPBELL.
Secretary—J. A. MILLIGAN.
Treasurer—W. H. MOORE.

Commercial Society

OFFICERS 1925-26

President—L. STEPHENSON.
Vice-President—LOUIS A. DOWLING.
Secretary—JOHN W. LITTLE.
Treasurer—V. W. HARCOURT.

Science Undergraduates' Society

OFFICERS 1925-26

President—L. B. ALMOND.
Vice-President—R. B. BURLAND.
Secretary—J. RACEY.
Treasurer—S. COLEMAN.
Assistant Secretary—W. JEHU.

Historical Club

OFFICERS 1925-26

Patron—SIR ARTHUR CURRIE.
Hon. Vice-President—PROFESSOR W. T. WAUGH, M.A., B.D.
President—RALPH TENNANT.
Vice-President—T. MILES GORDON.
Secretary-Treasurer—LARRATT SMITH.

Musical Association

OFFICERS 1925-26

President—WM. F. SHEPHERD.
Secretary-Treasurer—G. A. GRIER.

Electrical Club

OFFICERS 1925-26

President—To be elected.
Councillors—D. O. BREMNER.
S. A. CRAIG.
S. WEBSTER.
E. GRAY-DONALD.
K. REID.
J. P. McD. COSTIGAN.

Architectural Society

OFFICERS 1925-26

President—A. K. MILLS.
Vice-President—A. WALLACE.
Secretary—J. GLASSCO.
Representative—G. HUGHES.
Reporter—I. ARCHIBALD

Dental Undergraduates' Society

OFFICERS 1925-26

Hon. President—DR. F. G. HENRY.
Hon. Vice-President—DR. G. FRANKLIN.
President—SCOTT GOODNOH.
Vice-President—J. R. CARSON.
Secretary-Treasurer—W. H. WALKER.

Cercle Française

OFFICERS 1925-26

Hon. President—PROF. R. DUROURE.
President—J. DAINOW.
Vice-President—A. LATHAM.
Secretary—R. MOUSSEAU.
Treasurer—P. VILLARD.

Société Française

OFFICERS 1925-26

Hon. Président—MME FURNESS.
Président—MLLE M. RATNER.
1ière Vice-Président—MLLE B. LYMAN.
2ième Vice-Président—Doit être élue en Octobre.
Secretary-Treasurer—MLLE M. BROCK.

McGill Chapter of the Society of the Sigma XI

As stated in the Constitution, the Society of the Sigma XI, or "Companions in Zealous Research," has for its object the encouragement of original investigation in pure and applied science, by means of meetings, discussions, publications, the establishment of fraternal relations among investigators, and by granting the privilege of membership to such students as have, during their college courses, given special promise of future achievement.

The McGill Chapter of this Society was granted its charter on the 28th of December, 1921, and since that time has held regular meetings.

OFFICERS 1925-26

President—DR. JOHN BONSALL PORTER.

Vice-Presidents—DR. R. F. RUTTAN. DR. C. F. MARTIN.

Secretary-Treasurer—PROF. NEVIL NORTON EVANS.

Executive Committee—The above-named Officers and PROF. F. E. LLOYD, DR. A. S. EVE, and DR. A. T. BAZIN.

Pharmaceutical Society

OFFICERS 1925-26

President—LEWIS SHERWIN.
Vice-President—MOE M. SCHACHTER.
Secretary—EUSTACE A. REID.
Treasurer—JACK GOLDAPPLE.

Psychological Society

OFFICERS 1925-26

Hon. President—DR. C. E. KELLOGG.
President—ELMER MCLEOD.
Vice-President—MISS M. W. MACLEAN.
Secretary-Treasurer—THOS. G. HENDERSON.
Fourth Year Representative—R. B. MACLEOD.
Third Year Representative—MISS J. BELNAP.
Medical Representative—JOHN BROWN.

McGill C.O.T.C.

OFFICERS 1925-26

Hon. Colonel—GENERAL SIR ARTHUR CURRIE, G.C.M.G., K.C.B., LL.D.
Commanding Officer—LT.-COL. R. R. THOMPSON, M.C.
Second in Command—MAJOR D. STUART FORBES, M.C.
Adjutant—MAJOR J. W. JEAKINS, M.M.
Quartermaster—LIEUT. W. H. BAGG.

The Student Christian Association of McGill University

The membership of this Association is open to all students in the University and affiliated colleges who are interested enough to take an active part in the work of the Association.

The home of the Association is Strathcona Hall, which, in addition to providing ample accommodation for the work of the Association as a whole, provides residence for sixty-seven men.

Full particulars regarding the work of the Association are given in the annual Hand Book, and will also be supplied by the General Secretary.

OFFICERS 1925-26

Hon. President—MR. W. M. BIRKS.
President—J. W. MACLEOD, Arts '26.
1st Vice-President—W. R. WILSON, B.A.
2nd Vice-President—R. B. MICHENER, B.A. Med.'27.
Treasurer—D. R. LOGAN, Arts '26.
Rec.-Secretary—C. H. WHITMORE, B.A. Th'26.
House Secretary—F. S. HOWES, B.Sc.
Gen.-Secretary—H. R. C. AVISON, B.A.

The Student Christian Association of The Royal Victoria College

OFFICERS 1925-26

Hon. President—MRS. IRA MACKAY.
Hon. Vice-President—MISS M. FRY.
President—MISS M. DE BLOIS.
Vice-President—MISS A. TURNER.
Secretary-Treasurer—MISS M. ROSS.

Players' Club

OFFICERS 1925-26

President—A. P. R. COULBORN.
1st Vice-President—DOROTHY FREIMAN.
2nd Vice-President—JOHN A. TAYLOR.
Secretary—BRUCE ROSS.

Delta Sigma Society

OFFICERS 1925-26

Hon. President—MRS. VAUGHAN.
Hon. Vice-President—MRS. IRWIN.
President—MISS ISABEL NIXON.
1st Vice-President—MISS MAYSIE MACSPORRAN.
2nd Vice-President—MISS A. VAILE.
Secretary-Treasurer—MISS BEATRICE CARTER.

Osler Society

OFFICERS 1925-26

Hon. President—PROF. OERTEL.
President—D. D. MCKINNON.
Vice-President—H. R. L. DAVIS.
Secretary-Treasurer—NEIL FEENEY.
Reporter—A. S. ROSS.

Philosophical Society

OFFICERS 1925-26

Hon. President—PROF. W. CALDWELL.
President—J. A. TAYLOR.
Vice-President—ELMER MCLEOD.
Other officers to be elected next term.

Music Club of the Royal Victoria College

OFFICERS 1925-26

Hon. President—MISS LICHENSTEIN.
President—MISS LOUISE HURD.
1st Vice-President—MISS M. BENNY.
2nd Vice-President—MISS K. JAMES (Music).
Secretary-Treasurer—MISS E. BROOKS.

McGill Women Students' Athletic Association

OFFICERS 1925-26

Hon. President—MISS LICHENSTEIN.
Hon. Adviser—MISS CARTWRIGHT.
President—MISS FRANCES SECORD.
1st Vice-President—MISS M. RICHARDSON (M.S.P.E.).
2nd Vice-President—MISS ROBERTA DUNTON (R.V.C.).
General Secretary-Treasurer—MISS LAURA ROBERTSON.

Mechanical Club

OFFICERS 1925-26

Hon. President—PROF. ROBERTS.
President—ARTHUR BRANSCOMBE.
Vice-President—R. C. SIMON.
Secretary-Treasurer—C. BRAIN.

The Sociological Society

OFFICERS 1925-26

Hon. President—DR. C. A. DAWSON.
President—M. C. DUCKWORTH.
Vice-President—MISS JEAN FAIRBAIRN.
Secretary—KIEL H. OXLEY.

Old Scouts' Club

OFFICERS 1925-26

Hon. President—E. RUSSEL PATTERSON.
President—R. J. SMITH.
Vice-President—E. H. P. HAMILTON.
Secretary-Treasurer—A. S. ALLEN.

Athletic Clubs

Ski and Snowshoe Club

OFFICERS 1925-26

Captain—W. B. THOMPSON, Arts '28.
Manager—P. COSTIGAN, Sci. '26.
Assistant Manager—S. J. MARTIN, Med. '28.

Swimming and Water Polo Club

OFFICERS 1925-26

Hon. President—DR. C. T. SULLIVAN.
Manager—H. P. PETZOLD, Sci. '27.
Assistant Manager—C. E. LEWIS, Com. '26.

Rugby Club

OFFICERS 1925-26

Hon. President—MR. GEO. C. MCDONALD.
Captain—N. W. PHILPOTT, Med. '26.
Manager—R. B. BELL, Arts '26.

Boxing, Wrestling and Fencing Club

OFFICERS 1925-26

Hon. President—DR. H. OERTEL.
Captain—V. A. SNOW, Med. '27.
Manager—P. S. PHELPS, Arts '27.
Boxing Representative—B. TAYLOR, Sci. '28.
Wrestling Representative—M. GREENBERG, Med. '28.
Fencing Representative—J. D. KOURI, Sci. '27.
Assistant Manager—C. BRAIN, Sci. '27.

Track Club

OFFICERS 1925-26

Hon. President—DR. C. T. SULLIVAN.
Captain—F. W. HURD, Arts '26.
Manager—G. M. HYDE, Arts '26.
Assistant Manager—C. L. YUILE, Arts '27.

Soccer Club

OFFICERS 1925-26

Hon. President—DR. A. S. LAMB.
Captain—L. STEPHENSON, Com. '27.
Manager—J. SCOTT, Arts '27.
Assistant Manager—A. ARCHDALE, Sci. '28.

English Rugby Club

OFFICERS 1925-26

Hon. President—COL. W. BOVEY.
Captain—F. C. E. ROOME, Sci. '26.
Manager—H. CAMPBELL-BROWN, Med. '28.
Assistant Manager—A. K. E. HART, Sci. '28.

Golf Club

OFFICERS 1925-26

Hon. President—DR. RUTTAN.
Captain—W. B. ALLAN, Med. '29.
Manager—J. GORDON, Sci. P.G.
Assistant Manager—J. A. CAMERON, Arch. '29.

Indoor Baseball Club

OFFICERS 1925-26

Manager—G. GRASSICK, Med. '29.
Assistant Manager—L. W. LITTLE, Com. '28.

Rowing Club

OFFICERS 1925-26

Hon. President—MR. A. F. C. ROSS.
Hon. Vice-President—COL. W. BOVEY.
Captain—D. LOGAN, Arts '26.
Manager—J. R. BALLANTYNE, Sci. '28.
Assistant Manager—A. A. MACNAUGHTON, Arts '26.

Tennis Club

OFFICERS 1925-26

Hon. President—DR. C. F. MARTIN.
Captain—J. A. WRIGHT, Med. '28.
Manager—C. W. LESLIE, Arts '27.
Assistant Manager—T. M. BROWN, Med. '29.

Harrier Club

OFFICERS 1925-26

Captain—H. T. AIREY, Sci. '26.
Manager—J. BRIERLEY, Arts '28.

Hockey Club

OFFICERS 1925-26

Hon. President—DR. F. J. TEES.
Captain—A. C. ABBOTT, Sci. P.G.
Manager—R. G. M. GAMMELL, Arts '27.

Gymnastic Club

OFFICERS 1925-26

Hon. President—MR. W. WERRY.
Manager—T. R. KEENE, Sci. '28.
Assistant Manager—W. CONSIGLIO, Sci. '28.

Rifle Club

OFFICERS 1925-26

Hon. President—DR. A. S. EVE.
Captain—C. H. HERBERT, Com. '27.
Manager—K. M. PATE, Sci. '28.
Assistant Manager—J. M. POPE, Sci. '28.

Basketball Club

OFFICERS 1925-26

Hon. President—MR. I. GAMMELL.
Captain—R. S. QUACKENBUSH, Med. '29.
Manager—I. G. NORTON, Sci. '26.
Intermediate Manager—J. R. FRITH, Sci. '27.

Western Club of McGill University

The Club has for its objects the furthering of the interests of McGill in the four Western Provinces and the helping of new students to McGill from these Provinces.

Students from Manitoba, Saskatchewan, Alberta, or British Columbia, coming to McGill for the first time, are requested to communicate with the Secretary of the Club, care The Union, McGill University, Montreal.

OFFICERS 1925-26

Hon. President— ————.
President—H. T. AIREY.
Vice-President—W. O. STEVENS.
Secretary—K. REID.
Treasurer—J. JARDINE.

The Maritime Club

The object of this Club, which was formed by the amalgamation of the Nova Scotia and New Brunswick and Prince Edward Island clubs, is to promote, in every way possible, the best interests of students coming to McGill from the Maritime Provinces. Such students are urgently requested to communicate with the Secretary of the Club, who will be glad to render them all assistance in his power.

OFFICERS 1925-26

Hon. President—DEAN IRA MACKAY.
President—F. J. DINEEN.
Vice-President—MISS WILLIAMS.
Secretary—H. F. MOSELEY.
Treasurer—M. ANGEVINE.

American Club

OFFICERS 1925-26

Hon. President—PROF. OERTEL.
President—R. M. HAMILTON.
Vice-President—A. K. KOFF.
Treasurer—A. T. DUJAT.
Secretary—A. C. LATHROP.

Newfoundland Club

OFFICERS 1925-26

President—MALCOLM LIDSTONE
Vice-President—S. W. FRANCIS.
Secretary—B. BOWERING.
Treasurer—T. J. QUINTIN.

Graduates' Society of McGill University

President—DR. ALFRED T. BAZIN, 4064 Dorchester St., Westmount.
1st Vice-President—J. G. Ross, Milton Hersey Co., 84 St. Antoine St.
2nd Vice-President—H. M. MCLEOD, B.A.Sc., 39 Chestnut Park, Toronto, Ont.
Hon. Secretary—J. W. JEAKINS, B.A., McGill University, Montreal, Que.
Hon. Treasurer— ————

Executive:

A. SIDNEY DAWES, 119 Cedar Ave., Montreal.
DR. LORNE C. MONTGOMERY, 804 Medical Arts Bldg.
DR. F. S. PATCH, 68 Westmount Blvd., Westmount.
GORDON MCL. PITTS, care Maxwell & Pitts, 360 Beaver Hall Square.
Executive Secretary—W. DURIE MCLENNAN, B.Arch., McGill Univ., Montreal.

Alumnae Association of McGill University

OFFICERS 1925-26

President—MISS KATHERINE T. TRENHOLME.
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2nd Vice-President—MRS. GEORGE MCDONALD.
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4th Vice-President—MRS. WALTER E. LYMAN.
Recording Secretary—MRS. CYRUS MACMILLAN.
Asst. Recording Secretary—MRS. J. H. NORRIS.
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Treasurer—MISS E. CHRISTINE RORKE.
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District of Bedford McGill Graduates' Society

OFFICERS 1925-26

President—HON. MR. JUSTICE HACKETT.
Secretary-Treasurer—REV. ERNEST M. TAYLOR, M.A., Knowlton, P.Q.
Reporter—MAJOR STOCKWELL, K.C., Cowansville, Que.

McGill Alumni Association of Chicago

OFFICERS 1925-26

President—MISS MABEL H. WALBRIDGE.
Secretary—DR. NORMAN KERR, 25 East Washington St., Chicago, Ill.

Halifax Graduates' Society

OFFICERS 1925-26

President—C. H. WRIGHT, B.A.Sc., 110 Oxford Street, Halifax, N.S.
Secretary—PROF. W. F. MCKNIGHT, N.S. Tech. College, Spring Garden Road, Halifax, N.S.

Hamilton Graduates' Society

OFFICERS 1925-26

President—DR. PRYSE PARK, 164 James Street, Hamilton, Ont.
Secretary—DR. G. E. J. LANNIN, 150 James St., S., Hamilton, Ont.

Kootenay (B.C.) and Boundary Graduates' Society

OFFICERS 1925-26

President—DR. C. S. WILLIAMS, Rossland, B.C.
Secretary—C. T. OUGHTRED, B.A., Trail, B.C.

Los Angeles Graduates' Society

OFFICERS 1925-26

President—VICTOR E. DAWSON, B.Sc.,
616 N. Oxford Avenue, Los Angeles, Calif.
Vice-President—R. A. CROTHERS, B.A., LL.B.,
2001 Gough St., San Francisco, Calif.
Secretary-Treasurer—MRS. S. WRIGHT JEWETT, B.A.,
2034 South-Western Ave., Los Angeles, Calif.

New England Graduates' Society

OFFICERS 1925-26

President—DR. E. C. NOBLE, Boston State Hospital, Boston, Mass.
Secretary—DR. DEXTER, Taunton State Hospital, Taunton, Mass.

New York Graduates' Society

OFFICERS 1925-26

President—DR. D. S. LIKELY, 180 West 59th St., New York, N.Y.
Secretary—L. G. DENNISON, B.A., B.Sc.,
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Northern Alberta Graduates' Society

OFFICERS 1925-26

President—HON. A. C. RUTHERFORD, B.A., B.C.L.,
514 McLeod Block, Edmonton, Alta.
Secretary—C. CARRUTHERS, B.A., 8319-101st Street, Edmonton, Alta.

Southern Alberta Graduates' Society

OFFICERS 1925-26

President—COL. GEORGE MCDONALD, M.D.,
120-6th Avenue, Calgary, Alta.
Secretary—S. K. PEARCE, B.Sc., 514 Burns Bldg., Calgary, Alta.

Ottawa Valley Graduates' Society

OFFICERS 1925-26

President—DR. J. T. BASKEN, 350 Somerset St., Ottawa.
Secretary—ROBERT C. BERRY, B.Sc., 54 The Driveway, Ottawa, Ont.

Prince Edward Island Graduates' Society

OFFICERS 1925-26

President—HON. JUSTICE WILLIAM S. STEWART, B.A., K.C.,
Charlottetown, P.E.I.
Secretary—DR. W. J. P. MCMILLAN, 205 Kent St., Charlottetown, P.E.I.

Quebec Graduates' Society

OFFICERS 1925-26

President—BRIG.-GEN. J. E. LANDRY, B.C.L.,
59 St. Louis Street, Quebec, Que.
Secretary—O. L. BOULANGER, B.C.L., 132 St. Peter St., Quebec, Que.

St. Maurice Valley Graduates' Society

OFFICERS 1925-26

President—H. S. REID, B.A., Maple Avenue, Shawinigan Falls, Que.
Secretary—JOHN RYAN, Hotel St. Louis, Three-Rivers, Que.

St. John (N.B.) Graduates' Society

OFFICERS 1925-26

President—C. G. HARE, B.Sc., City Engineer, St. John, N.B.
Secretary—DR. W. WARWICK, 151 Leinster Street, St. John, N.B.

McGill Graduates' Society of Toronto

OFFICERS 1925-26

President—HON. MR. JUSTICE JAMES CRAIG,
73 Walker Avenue, Toronto, Ont.
Secretary—H. B. MCHENRY, 26 Noble St., Toronto, Ont.
Treasurer—H. C. DAVIES, 190 University Ave., Toronto, Ont.

McGill Graduates' Society of Vancouver

OFFICERS 1925-26

President—DR. R. E. MCKECHNIE,
Birks Building, Vancouver, B.C.
Secretary—NEVILLE SMITH, B.A., 543 Hastings St. W., Vancouver, B.C.
Treasurer—R. G. PHIPPS, B.A.,
936 Rogers Building, Vancouver, B.C.

McGill Graduates' Society of Victoria

OFFICERS 1925-26

President—DR. W. LESLIE CLAY, 821 Linden Ave., Victoria, B.C.
Secretary-Treasurer—DR. D. W. GRAHAM,
302 Campbell Bldg., Victoria, B.C.
Reporter—R. H. GREEN, B.A., 515 Belmont House, Victoria, B C.

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